



# STIC Search Report

## EIC 2100

STIC Database Tracking Number: 145504

**TO:** Fred Ehichoya  
**Location:** RND 3B31  
**Art Unit :** 2162  
**Friday, February 18, 2005**

**Case Serial Number:** 09/825800

**From:** Geoffrey St. Leger  
**Location:** EIC 2100  
**Randolph-4B31**  
**Phone:** 23450

**geoffrey.stleger@uspto.gov**

### Search Notes

Dear Examiner Ehichoya,

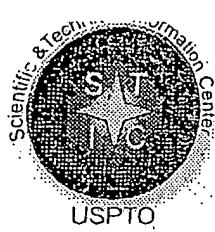
Attached please find the results of your search request for application 09/825800. I searched Dialog's patent files, technical databases and general files.

Please let me know if you have any questions.

Regards,

A handwritten signature in black ink, appearing to read "Geoffrey St. Leger".

Geoffrey St. Leger  
4B30/308-7800



# STIC EIC 2100

## Search Request Form

145504

Today's Date:

1/18/05

What date would you like to use to limit the search?

Priority Date: 4/4/2001 Other:

Name FRED EHICHT 109A

Format for Search Results (Circle One):

 PAPER  DISK  EMAIL

Where have you searched so far?

 USP  DWPI  EPO  JPO  ACM  IBM TDB IEEE  INSPEC  SPI Other \_\_\_\_\_AU 2162 Examiner # 79719Room # RAN 3B31 Phone 2-4034Serial # 09/825,800Is this a "Fast & Focused" Search Request? (Circle One)  YES  NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-ic2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

TRAINING, INFERENCE AND USER INTERFACE FOR GUIDING THE CULLING OF MEDIA CONTENT IN LOCAL STORES.

— the inference system employs collaborative filtering techniques on a temporal history of previously viewed information to assign values to selections in the recommendation list from a higher probability to a lower probability that a user of the system would prefer to view information corresponding to an available selection.

STIC Searcher Geoffrey St. Leger Phone 23590  
Date picked up 2/18/05 Date Completed 2/18/05



File 347:JAPIO Nov 1976-2004/Oct (Updated 050208)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200510

(c) 2005 Thomson Derwent

Set	Items	Description
S1	346	FILTER???(3N) (COLLABORAT? OR COOPERAT? OR CO()OPERAT???)
S2	5329728	PROGRAM? ? OR PROGRAMMING OR SHOW? ? OR TV OR TELEVISION OR MOVIE? ? OR FILM? ? OR VIDEO? ? OR PPV OR SELECTION? ?
S3	7090011	MATERIAL? ? OR CONTENT? ? OR MEDIA OR MULTIMEDIA OR MUSIC - OR SONG? ? OR AUDIO OR DATA OR INFORMATION OR ITEM? ?
S4	1308136	S2:S3(5N) (VIEW??? OR REVIEW??? OR WATCH??? OR SEE OR SEEING OR LOOK??? OR OBSERV??? OR HEAR??? OR LISTEN??? OR ENJOY??? - OR EXPERIENC???)
S5	4061	S2:S3(7N) (RECOMMEND? OR SUGGEST?)
S6	375	S4(7N) (LIKELY OR LIKELIHOOD OR PROBABILITY OR PROBABLE OR - GUESS??? OR PREDICT? OR INFER??? OR INFERENCE? ?)
S7	3451526	TIME OR TIMES OR TEMPORAL? OR PERIOD? ? OR DAY? ? OR WEEK? ? OR WEEKLY OR MORNING OR EVENING OR AFTERNOON OR NIGHT?? OR - PRIMETIME
S8	35895	S7(10N) (VIEW??? OR WATCH??? OR SEE OR SEEING OR LOOK??? OR OBSERV??? OR HEAR??? OR LISTEN??? OR ENJOY??? OR EXPERIENCE??- ?)
S9	1	S1 AND S4 AND S8
S10	8	COLLABORAT? AND S4 AND S8
S11	28	S5 AND S4 AND S8
S12	36	S9:S11
S13	18	S12 AND AC=US/PR
S14	12	S13 AND AY=(1970:2001)/PR
S15	15	S12 AND PY=1970:2001
S16	22	S14:S15
S17	18	S12 AND AC=US
S18	12	S17 AND AY=(1970:2001)
S19	0	S18 NOT S16
S20	57	S6 AND S8
S21	55	S20 NOT S12
S22	8	S21 AND AC=US/PR
S23	7	S22 AND AY=(1970:2001)/PR
S24	34	S21 AND PY=1970:2001
S25	38	S23:S24

16/5/4 (Item 4 from file: 347)  
DIALOG(R) File 347:JAPIO  
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06667501 \*\*Image available\*\*  
ELECTRONIC PROGRAM GUIDE RECEPTION SYSTEM

PUB. NO.: 2000-253325 [JP 2000253325 A]  
PUBLISHED: September 14, 2000 ( 20000914 )  
INVENTOR(s): HIRAMATSU RYOSUKE  
MASUDA ISAO  
MAEDA SHIGERU  
APPLICANT(s): TOSHIBA CORP  
APPL. NO.: 11-050272 [JP 9950272]  
FILED: February 26, 1999 (19990226)  
INTL CLASS: H04N-005/445; H04N-007/025; H04N-007/03; H04N-007/035

#### ABSTRACT

PROBLEM TO BE SOLVED: To allow a user to accurately and efficiently select and view a channel desired among many channels.

SOLUTION: A data processing section 16 acquires information about a user operation history including **program viewing** and **program recording** and reproduction by user operation and stores the information to a data storage section 18. In the case that display of a program table is designated from a remote controller 23, the data processing section 16 discriminates preference of **program view** by the user for a predetermined **time** band such as every hour in the unit of at least program category based on the newest electronic program guide EPG information extracted from an EPG decode section 13 and the user operation history information. The **data processing** section 16 discriminates ranking of **recommendations** for each time band for each **program** denoted by the EPG information based on the discrimination result and allows a display section 14 to display a **recommended program** list denoting a **program** group in matching with the user's preference in a two dimensional expression consisting of a time base axis and a recommended degree axis based on the discrimination result.

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16/5/5 (Item 5 from file: 347)  
DIALOG(R) File 347:JAPIO  
(c) 2005 JPO & JAPIO. All rts. reserv.

06516223 \*\*Image available\*\*  
PROGRAM SELECTION CONTROLLER

PUB. NO.: 2000-101941 [JP 2000101941 A]  
PUBLISHED: April 07, 2000 ( 20000407 )  
INVENTOR(s): WAIDA RIKA  
SUZUKI TAKUMA  
HORIUCHI MASATO  
APPLICANT(s): VICTOR CO OF JAPAN LTD  
APPL. NO.: 10-272874 [JP 98272874]  
FILED: September 28, 1998 (19980928)  
INTL CLASS: H04N-005/44

#### ABSTRACT

PROBLEM TO BE SOLVED: To present, with a simple constitution **programs** similar to those viewed in the past as **recommended programs** by selecting **programs** available at a current time and similar to programs with conditions similar to those of history information, based on the history **information** and current time **information**.  
SOLUTION: A **recommended program** discrimination means 6 that detects a detection signal received from a **recommendation** instruction detection means 9 selects plural **programs** that are available at a current **time**

and similar to those frequency viewed for the time zone, based on past information supplied from a history information storage means 5 and current time information supplied from a clock means 8. Then the means 6 sequentially selects them as recommended programs in the order of higher similarity and outputs a signal to select channels, on which the programs are broadcast to a channel changeover means 2. The channel changeover means 2 selects a channel, on which a recommendation program is broadcast, based on the switching signal received from the recommended program discrimination means 6 to provide an output of the recommended program to a broadcast reproduction means 3.

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16/5/6 (Item 6 from file: 347)

DIALOG(R)File 347:JAPIO

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03146174 \*\*Image available\*\*

SELF-IMPROVING METHOD WHILE LOOKING TELEVISION

PUB. NO.: 02-121674 [JP 2121674 A]

PUBLISHED: May 09, 1990 ( 19900509)

INVENTOR(s): AIKAWA MASAYUKI

APPLICANT(s): SERENDEIPUTEI KK [000000] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 63-276494 [JP 88276494]

FILED: November 01, 1988 (19881101)

INTL CLASS: [5] A61M-021/02; A63F-009/22; G09B-005/06; G10L-003/00

JAPIO CLASS: 28.2 (SANITATION -- Medical); 30.2 (MISCELLANEOUS GOODS -- Sports & Recreation); 42.5 (ELECTRONICS -- Equipment)

JAPIO KEYWORD: R108 (INFORMATION PROCESSING -- Speech Recognition & Synthesis)

JOURNAL: Section: C, Section No. 742, Vol. 14, No. 334, Pg. 27, July 18, 1990 (19900718)

#### ABSTRACT

PURPOSE: To support the achievement of the ideal behavior or consciousness of the person himself extremely naturally by sending the data relating to a suggestion message in subconsciousness to accumulate the same during a time looking the image and sound of the broadcasting program or video projected on the picture of a television.

CONSTITUTION: The suggestion message due to the character, image and sound stored in an IC cassette (g) is synthesized with the image and sound relating to the broadcasting program, video 3 or family computer 4 projected on the picture of a television 2 to be regenerated instantaneously or by sound outside an audible region so as not to be almost sensed by a viewer. Therefore, consciousness making an effort for improving own behavior and consciousness is not generated at all and the data relating to the suggestion message is received extremely naturally through subconsciousness. Since the data relating to the suggestion message is repeatedly and continuously received during looking a television daily, a considerable quantity of data is accumulated as subconsciousness.

16/5/7 (Item 7 from file: 347)

DIALOG(R)File 347:JAPIO

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01601383 \*\*Image available\*\*

TELEVISION BROADCAST SYSTEM

PUB. NO.: 60-079883 [JP 60079883 A]

PUBLISHED: May 07, 1985 ( 19850507)

INVENTOR(s): SEKIMOTO TADAHIRO

MOTOHASHI SHOJI

APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 58-187325 [JP 83187325]  
FILED: October 06, 1983 (19831006)  
INTL CLASS: [4] H04N-007/08  
JAPIO CLASS: 44.6 (COMMUNICATION -- Television)  
JOURNAL: Section: E, Section No. 341, Vol. 09, No. 220, Pg. 89,  
September 06, 1985 (19850906)

#### ABSTRACT

PURPOSE: To attain the **viewing** of plural **programs** at the same **time** or one of them as required by combining plural programs and transmitting at the same time them, and expanding one of the programs in response to a cue signal from a broadcast station at a reception side as desired.

CONSTITUTION: A video signal from a main program source 1 and a subprogram source 2 is fed respectively to a mixing tube 3 and a compressor 4. The size of the video signal of the subprogram is compressed and transmitted while being inserted at a prescribed size at a position not giving much effect on the **content** of the main **program**. When it is **recommended** by a broadcast station that the subprogram is viewed with expansion at the reception side, the cue signal is superimposed on the video signal. The reception side separates a synchronizing signal from the video signal demodulated into a base band, forms an extracting signal so as to extract the video signal of the subprogram, writes it in a subprogram memory 12 and also applies it to a switch S(sub 2) with expansion. When the switch S(sub 3) is selected to the position (p), the expanded pattern of the subprogram appears on a picture tube 15 automatically in response to the reproduction cue signal.

16/5/10 (Item 3 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

015597109 \*\*Image available\*\*  
WPI Acc No: 2003-659264/200362  
XRPX Acc No: N03-525560  
Viewer preference discovering method used in TV, involves analyzing time stamped sequence generated by processor in response to TV control signals

Patent Assignee: SONY CORP (SONY ); SONY ELECTRONICS INC (SONY )

Inventor: CHANG M; CREED A L; DEW A; GUDORF G; HAUSCH W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030110489	A1	20030612	US 2001781	A	20011029	200362 B

Priority Applications (No Type Date): US 2001781 A 20011029

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030110489	A1	5		H04N-007/25	

Abstract (Basic): US 20030110489 A1

NOVELTY - The TV control signals from a TV remote control device is recorded as a click stream and given to a processor which generates a time stamped sequence. The time stamped sequence is analyzed for discovering viewer preferences.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) system for discovering viewer preference; and
- (2) viewer -friendly TV system.

USE - For hybrid TV/computers, web TV.

ADVANTAGE - Provides an unobtrusive way to determine viewers preferences or viewers profile for establishing TV setting, TV program recommendation and facilitating marketing function.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart of viewer preference discovering method.

pp; 5 DwgNo 2/7

Title Terms: VIEW; PREFER; DISCOVER; METHOD; TELEVISION; TIME; STAMP;

SEQUENCE; GENERATE; PROCESSOR; RESPOND; TELEVISION; CONTROL; SIGNAL

Derwent Class: T01; W02; W03

International Patent Class (Main): H04N-007/25

File Segment: EPI

16/5/11 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015267868 \*\*Image available\*\*

WPI Acc No: 2003-328797/200331

XRXPX Acc No: N03-262967

Television system for suggesting scheduled television programs, has processor that generates list of programs by sorting program schedule based on characteristics of programs, table and selected future time period

Patent Assignee: THOMSON LICENSING SA (CSFC ); JOHNSON C R (JOHN-I); KIEFER M A (KIEF-I); RANDALL D W (RAND-I); THOMPSON W G (THOM-I); WANG C (WANG-I)

Inventor: JOHNSON C R; KIEFER M A; RANDALL D W; THOMPSON W G; WANG C

Number of Countries: 101 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020188947	A1	20021212	US 2001879573	A	20010612	200331 B
WO 2002102067	A1	20021219	WO 2002US18308	A	20020607	200331
EP 1400111	A1	20040324	EP 2002737447	A	20020607	200421
			WO 2002US18308	A	20020607	
KR 2004017231	A	20040226	KR 2003716234	A	20031211	200439
BR 200210275	A	20040720	BR 200210275	A	20020607	200451
			WO 2002US18308	A	20020607	
AU 2002310376	A1	20021223	AU 2002310376	A	20020607	200452
JP 2004530395	W	20040930	WO 2002US18308	A	20020607	200465
			JP 2003504670	A	20020607	
CN 1515113	A	20040721	CN 2002811632	A	20020607	200468
MX 2003011373	A1	20040401	WO 2002US18308	A	20020607	200478
			MX 200311373	A	20031209	

Priority Applications (No Type Date): US 2001879573 A 20010612

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020188947 A1 14 H04N-005/445

WO 2002102067 A1 E H04N-005/445

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

EP 1400111 A1 E H04N-005/445 Based on patent WO 2002102067

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

KR 2004017231 A H04N-005/445

BR 200210275 A H04N-005/445 Based on patent WO 2002102067

AU 2002310376 A1 H04N-005/445 Based on patent WO 2002102067

JP 2004530395 W 39 H04N-005/445 Based on patent WO 2002102067

CN 1515113 A H04N-005/445

MX 2003011373 A1 H04N-005/445 Based on patent WO 2002102067

Abstract (Basic): US 20020188947 A1

NOVELTY - The table of the characteristic weights for the user is stored and incremented periodically based on the television program schedule. An user interface selects a future time period for requesting a list of the selected programs. A processor generates the list of the programs by sorting the schedule based on the received data, the table

and the selected future time.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for television program schedule sorting method.

USE - For selection of television programs for viewing, for DirecTV systems.

ADVANTAGE - Permits the user to select a broadcast time period and/or suggestion mode which results in learning the viewers habit automatically. Since the suggestion mechanism is limited to a specific time the burden on the system is reduced and quicker processing is enabled.

DESCRIPTION OF DRAWING(S) - The figure shows a screen display for broadcast time period entry by user.

pp; 14 DwgNo 1/7

Title Terms: TELEVISION; SYSTEM; SCHEDULE; TELEVISION; PROGRAM; PROCESSOR; GENERATE; LIST; PROGRAM; SORT; PROGRAM; SCHEDULE; BASED; CHARACTERISTIC; PROGRAM; TABLE; SELECT; FUTURE; TIME; PERIOD

Derwent Class: T01; W03

International Patent Class (Main): H04N-005/445

International Patent Class (Additional): G06F-017/30; H04N-007/025; H04N-007/03; H04N-007/035

File Segment: EPI

16/5/13 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014698746

WPI Acc No: 2002-519450/200255

XRPX Acc No: N02-411148

Method of managing a user profile by recording a number of viewing history windows of observed user behavior each corresponding to a different time interval

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG )

Inventor: SCHAFFER J D

Number of Countries: 024 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200242959	A2	20020530	WO 2001EP13418	A	20011116	200255 B
KR 2002070496	A	20020909	KR 2002709369	A	20020720	200311
EP 1340179	A2	20030903	EP 2001991738	A	20011116	200365
			WO 2001EP13418	A	20011116	
JP 2004515145	W	20040520	WO 2001EP13418	A	20011116	200434
			JP 2002545412	A	20011116	

Priority Applications (No Type Date): US 2000718256 A 20001122

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200242959 A2 E 23 G06F-017/60

Designated States (National): CN JP KR VN

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

KR 2002070496 A H04N-005/44

EP 1340179 A2 E G06F-017/60 Based on patent WO 200242959

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

JP 2004515145 W 40 H04N-007/173 Based on patent WO 200242959

Abstract (Basic): WO 200242959 A2

NOVELTY - The history windows may record television programs watched, or purchases made, by the user in different time intervals. The user's reactions, e.g. like of dislike, may also be recorded. The history may indicate the number of times different features of behavior is undertaken by the user and any features with below a given number of occurrences are deleted from the profile. The profile is then used to recommend programs that the user is likely to enjoy.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a system for managing a user profile.

USE - Recommending television programs .

ADVANTAGE - Maintains viewing histories in a more efficient manner.

pp; 23 DwgNo 0/8

Title Terms: METHOD; MANAGE; USER; PROFILE; RECORD; NUMBER; VIEW; HISTORY; WINDOW; OBSERVE; USER; BEHAVE; CORRESPOND; TIME; INTERVAL

Derwent Class: T01; W03

International Patent Class (Main): G06F-017/60; H04N-005/44; H04N-007/173

International Patent Class (Additional): G06F-017/30; H04N-017/00

File Segment: EPI

16/5/14 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014650534 \*\*Image available\*\*

WPI Acc No: 2002-471238/200250

XRPX Acc No: N02-372040

Automatically identifying changes in viewer preferences for television program recommender in way that provides more efficient management viewing history storage

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG )

Inventor: KURAPATI K

Number of Countries: 023 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat. No	Kind	Date	Week
WO 200225939	A2	20020328	WO 2001EP10413	A	20010907	200250 B
KR 2002056926	A	20020710	KR 2002706446	A	20020520	200304
CN 1404687	A	20030319	CN 2001803814	A	20010907	200344
EP 1323300	A2	20030702	EP 2001985316	A	20010907	200344
			WO 2001EP10413	A	20010907	
JP 2004509578	W	20040325	WO 2001EP10413	A	20010907	200422
			JP 2002529020	A	20010907	

Priority Applications (No Type Date): US 2000666630 A 20000920

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200225939 A2 E 18 H04N-005/445

Designated States (National): CN JP KR

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

KR 2002056926 A H04N-005/44

CN 1404687 A H04N-005/445

EP 1323300 A2 E H04N-005/445 Based on patent WO 200225939

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

JP 2004509578 W 39 H04N-005/445 Based on patent WO 200225939

Abstract (Basic): WO 200225939 A2

NOVELTY - Once changing viewing preferences are identified, a programming recommender can adapt the generated television program recommendations to so changes in viewing preferences. For cyclical or periodic changes in viewing preferences, the recommender generates television program recommendations using a sub-set of the viewing history from a corresponding earlier time period. For true or permanent changes in viewing preferences, the recommender optionally generates television program recommendations using the most recent sub-set of the viewing history.

USE - To automatically identify changes in viewing preferences for television system.

ADVANTAGE - More efficient management of storage of the viewing history. Can delete obsolete parts of the viewing history without loss of any performance in the generated recommendations.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of the recommendation system used to implement the method.

pp; 18 DwgNo 1/4

Title Terms: AUTOMATIC; IDENTIFY; CHANGE; VIEW; TELEVISION; PROGRAM; WAY;

MORE; EFFICIENCY; MANAGEMENT; VIEW; HISTORY; STORAGE  
Derwent Class: W03  
International Patent Class (Main): H04N-005/44; H04N-005/445  
International Patent Class (Additional): H04N-007/16  
File Segment: EPI

16/5/15 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014487944 \*\*Image available\*\*  
WPI Acc No: 2002-308647/ 200235  
XRPX Acc No: N02-241546  
Broadcast program recommendation device for television receivers, judges program to be broadcasted currently, based on program information and program time information  
Patent Assignee: VICTOR CO OF JAPAN (VICO )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applcat No Kind Date Week  
JP 2001275048 A 20011005 JP 200085382 A 20000324 200235 B

Priority Applications (No Type Date): JP 200085382 A 20000324

Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
JP 2001275048 A 9 H04N-005/44

Abstract (Basic): JP 2001275048 A

NOVELTY - A channel switching detector (7) controls a switching unit (2) which selects program of a channel. The program information of the selected channel is stored in a memory (5), based on the program time and the detector output. A judging unit (6) judges the program which is to be broadcasted currently, based on the stored time and the program information.

USE - For television receivers for recommending viewer's preference broadcast program from CS, BS and cable TV.

ADVANTAGE - Enables broadcasting a suitable program to the viewer within the desired time .

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a broadcast program recommendation device. (Drawing includes non-English language text).

Switching unit (2)  
Memory (5)  
Judging unit (6)  
Channel switching detector (7)

pp; 9 DwgNo 1/5

Title Terms: BROADCAST; PROGRAM; DEVICE; TELEVISION; RECEIVE; JUDGEMENT; PROGRAM; CURRENT; BASED; PROGRAM; INFORMATION; PROGRAM; TIME; INFORMATION  
Derwent Class: W02; W03; W04  
International Patent Class (Main): H04N-005/44  
International Patent Class (Additional): H04H-001/00; H04H-009/00; H04N-005/00  
File Segment: EPI

16/5/20 (Item 13 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011962492 \*\*Image available\*\*  
WPI Acc No: 1998-379402/ 199833  
XRPX Acc No: N98-296700  
Electronic programming guide which operates on computing platform associated with television - uses platform to access program listing database containing information for different television programs , and includes database containing viewer profiles and suggest module which generates preferred schedule using viewer profile

Patent Assignee: TEXAS INSTR INC (TEXI )  
Inventor: KILLIAN R T; KILLIA R T  
Number of Countries: 029 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 854645	A2	19980722	EP 98300018	A	19980105	199833 B
JP 10207914	A	19980807	JP 9831914	A	19980105	199842
SG 67469	A1	19990921	SG 9810	A	19980102	199945
KR 98070327	A	19981026	KR 9828	A	19980103	199952
US 6163316	A	20001219	US 9734480	A	19970103	200102
			US 97943661	A	19971003	
TW 435046	A	20010516	TW 97120112	A	19980213	200170

Priority Applications (No Type Date): US 9734480 P 19970103; US 97943661 A 19971003

Cited Patents: No-SR.Pub

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 854645	A2	E 18	H04N-005/445	Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
JP 10207914	A	18	G06F-017/30	
SG 67469	A1		H04N-005/445	
KR 98070327	A		H04N-005/765	
US 6163316	A		H04N-007/10	Provisional application US 9734480
TW 435046	A		G06F-017/30	

Abstract (Basic): EP 854645 A

The electronic programming guide for computing platform associated with a television, the platform operable to access a program listing database containing program listing information for a plurality of television programs, has a profile database for storing a viewer profile. A suggest module is coupled to the profile database for accessing the **viewer** profile and the **program** listing **information** and, in response, generates a preferred schedule according to the **viewer** profile and the **program** listing **information**. The preferred schedule is indicative of the desirability of a particular program relative to other programs.

A profile module receives **viewer** preference **information** and, in response, generates the **viewer** profile. The profile module is operable to provide a preference template to the **viewer** for receiving the **viewer** preference **information**. The **viewer** profile includes a ranking corresponding to an option selected from the group consisting of a genre option, an actor option, a sports team option, and a keyword option.

ADVANTAGE - Generates profiles for different viewers and likely schedule to appeal to each. Allows **viewer** to tune to more preferable **programming** at any **time** during **viewing** session. **Viewer** need not block entire channel to restrict **viewing** of undesirable **programs** to certain user such as child.

Dwg.3/7

Title Terms: ELECTRONIC; PROGRAM; GUIDE; OPERATE; COMPUTATION; PLATFORM; ASSOCIATE; TELEVISION; PLATFORM; ACCESS; PROGRAM; LIST; DATABASE; CONTAIN ; INFORMATION; TELEVISION; PROGRAM; DATABASE; CONTAIN; VIEW; PROFILE; MODULE; GENERATE; PREFER; SCHEDULE; VIEW; PROFILE

Derwent Class: T01; W01; W03; W04

International Patent Class (Main): G06F-017/30; H04N-005/445; H04N-005/765; H04N-007/10

International Patent Class (Additional): H04N-005/44; H04N-007/173

File Segment: EPI

16/5/21 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011407705

WPI Acc No: 1997-385612/ 199735

XRPX Acc No: N97-320990

Automated collaborative filtering for selective World Wide Web advertising - using characteristics of user's activities in interactive medium to assign them to community of people of similar likes and then display advert determined to be of interest

Patent Assignee: ROBINSON G B (ROBI-I); ATHENIUM LLC (ATHE-N)

Inventor: ROBINSON G B

Number of Countries: 074 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9726729	A2	19970724	WO 96US20429	A	19961226	199735 B
AU 9715665	A	19970811	AU 9715665	A	19961226	199747
US 5918014	A	19990629	US 959286	A	19951227	199932
			US 9612517	A	19960229	
			US 96774180	A	19961226	

Priority Applications (No Type Date): US 9612517 P 19960229; US 959286 P 19951227; US 96774180 A 19961226

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9726729	A2	E	26	H04L-000/00	
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Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

AU 9715665	A	H04L-029/00	Based on patent WO 9726729
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US 5918014	A	G06F-015/163	Provisional application US 959286
			Provisional application US 9612517

Abstract (Basic): WO 9726729 A

The World Wide Web allows advertisements to be presented to users and also collection of information about users. The advertisements selected by users and the time they observe the material can be traced along with other information supplied by the user. The data can be analysed to identify communities of user that respond in similar manner to certain types of advertisements.

This knowledge can then be used with Smart Ad Boxes to show only adverts related to his or her particular consumer community. The data can also be collected within the user's own browser software so that selections are within the user control and do not breach privacy concerns.

USE/ADVANTAGE - Provides intelligent and selective presentation of advertising material by identifying user's interests. Can be combined with systems using age, gender, Internet domain etc.

25/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2005 JPO & JAPIO. All rts. reserv.

06789041 \*\*Image available\*\*  
PROGRAM INFORMATION PROCESSOR, ITS METHOD, AND RECORDING MEDIUM RECORDING  
THE PROGRAM

PUB. NO.: 2001-016522 [JP 2001016522 A]  
PUBLISHED: January 19, 2001 ( 20010119)  
INVENTOR(s): MURAI YUUKI  
APPLICANT(s): NEC CORP  
APPL. NO.: 11-186567 [JP 99186567]  
FILED: June 30, 1999 (19990630)  
INTL CLASS: H04N-005/445; H04N-007/025; H04N-007/03; H04N-007/035

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a program information processor, its method and recording medium recording its program, which match the preference of a user and can display speedily in the contents of a program explanation by previously storing the contents of **program** explanation predicted to be **viewed** and storing also the number of displaying **times** according to the instruction of a user in a statistic information storing part as for the contents of the program explanation display-requested before.

SOLUTION: This processor has a statistic information update means 163 for calculating a score for each program so that the score may be raised in the order of becoming newer of the viewing date of the program based on the number of the **viewing times** of a program by a user and the number of **viewing times** of the contents of the program explanation by the user and for sequencing as for each program based on the score, and a program explanation content obtaining means 164 for obtaining the contents of the program explanation corresponding to a program to store in a program explanation content storing part 153 when an order is equal to or higher than a prescribed order.

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25/5/7 (Item 7 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06018732 \*\*Image available\*\*  
HYPER MEDIA DOCUMENT LOOK-AHEAD DEVICE AND RECORDING MEDIUM THEREFOR

PUB. NO.: 10-301832 [JP 10301832 A]  
PUBLISHED: November 13, 1998 ( 19981113)  
INVENTOR(s): SAEGUSA TAMON  
APPLICANT(s): KOBE NIPPON DENKI SOFTWARE KK [000000] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 09-109286 [JP 97109286]  
FILED: April 25, 1997 (19970425)  
INTL CLASS: [6] G06F-012/00; G06F-012/00  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units)

#### ABSTRACT

PROBLEM TO BE SOLVED: To eliminate the increase of the load on a whole system when the look-ahead of data intended by a user is not operated at the **time** of the **look - ahead** of scene **data** by **predicted** information.

SOLUTION: A hyper media document terminal device 3 is connected to a hyper media document server 1, and scene data are acquired and displayed at a display device 9. The hyper media document terminal equipment 3 which receives the look-ahead instruction of the next scene decided by a user waits for the completion of the reading of present scene data, and acquires

the next scene data from the hyper media document server 1. The user reads the present scene, and then transmits a look-ahead document display instruction to the hyper media document terminal equipment 3, and the next scene is displayed

25/5/22 (Item 22 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2005 JPO & JAPIO. All rts. reserv.

02291233  
INFERENCE SYSTEM

PUB. NO.: 62-208133 [JP 62208133 A]  
PUBLISHED: September 12, 1987 ( 19870912)  
INVENTOR(s): ISHII SHIGEO  
APPLICANT(s): ISHII SHIGEO [000000] (An Individual), JP (Japan)  
APPL. NO.: 61-050656 [JP 8650656]  
FILED: March 10, 1986 (19860310)  
INTL CLASS: [4] G06F-009/44; G06F-007/28  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL: Section: P, Section No. 672, Vol. 12, No. 68, Pg. 34, March  
03, 1988 (19880303)

#### ABSTRACT

PURPOSE: To reduce the volume of calculation to obtain an inference result within a short period and to reduce the storage capacity to required minimum by executing the inference directly when the same experience as the inference did not exist in the past, and automatically storing only an effective inference result.

CONSTITUTION: An inference mechanism part executes real **inference**, a retrieving mechanism part retrieves **data** registered in an **experience** table and a detecting mechanism part detects the degree of jam of the inference **time** and the inference mechanism and that of an **experience** table detecting **time** and the retrieving mechanism. A control table is provided with a decision table, an experience table, an environment table, and a working table. When an inference is applied, necessary decision is executed and whether the actual inference is to be executed or the inference result experiences in the past is to be utilized is determined. At the time of execution of the inference, necessary decision is executed and the inference result or the like is additionally registered in the experience table in accordance with the decided result.

25/5/26 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

014572752 \*\*Image available\*\*  
WPI Acc No: 2002-393456/200242  
XRPX Acc No: N02-308507  
Video system has promotion module storing viewer profile and associated promotion content for selection depending on day and time  
Patent Assignee: KEEN PERSONAL MEDIA INC (KEEN-N)  
Inventor: KRAPF R M  
Number of Countries: 093 Number of Patents: 002  
Patent Family:  

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200203677	A2	20020110	WO 2001US20059	A	20010621	200242 B
AU 200177848	A	20020114	AU 200177848	A	20010621	200242

Priority Applications (No Type Date): US 2000608819 A 20000630

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
WO 200203677 A2 E 17 H04N-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA

CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW  
AU 200177848 A H04N-000/00 Based on patent WO 200203677

Abstract (Basic): WO 200203677 A2

NOVELTY - System comprises a set-top video receiver, a video data input port, an output port for a display and a preference engine coupled to the input port tracking viewer selections and creating a viewer profile.

DETAILED DESCRIPTION - A promotion module coupled to the engine and output port selects preferred promotion content from premium contents in response to the viewer profile, stores it and displays it as video clips, trailers, actors etc. to entice the viewer to watch an associated premium content (conditional access video contents). A module scrambles the conditional access video content before recording it and a second scrambler de-scrambles it when an access condition is fulfilled, i.e. payment of a fee.

USE - System is for displaying video data.

ADVANTAGE - System makes it more likely that the viewer **watches premium content**.

DESCRIPTION OF DRAWING(S) - The figure shows the system.

pp; 17 DwgNo 1/3

File 348:EUROPEAN PATENTS 1978-2005/Feb W01

(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20050217,UT=20050210

(c) 2005 WIPO/Univentio

Set	Items	Description
S1	1188	FILTER???(3N) (COLLABORAT? OR COOPERAT? OR CO()OPERAT???)
S2	1411103	PROGRAM? ? OR PROGRAMMING OR SHOW? ? OR TV OR TELEVISION OR MOVIE? ? OR FILM? ? OR VIDEO? ? OR PPV OR CONTENT? ? OR MEDIA OR MULTIMEDIA
S3	342470	S2(5N) (VIEW??? OR REVIEW??? OR WATCH??? OR SEE OR SEEING OR LOOK??? OR OBSERV???)
S4	14214	S2(5N) (RECOMMEND? OR SUGGEST?)
S5	1379	S3(7N) (LIKELY OR LIKELIHOOD OR PROBABILITY OR PROBABLE OR - GUESS??? OR PREDICT? OR INFER??? OR INFERENCE? ?)
S6	1246859	TIME OR TIMES OR TEMPORAL? OR PERIOD? ? OR DAY? ? OR WEEK? ? OR WEEKLY OR MORNING OR EVENING OR AFTERNOON OR NIGHT?? OR - PRIMETIME
S7	34615	S6(7N) (VIEW??? OR WATCH???)
S8	6	S1(50N)S3(50N)S7
S9	181	S3(50N)S4(50N)S7
S10	29	S9/AB, CM
S11	98	S5(50N)S7
S12	8	S11/AB, CM
S13	39	S8 OR S10 OR S12
S14	34	S13 AND AC=US/PR
S15	24	S14 AND AY=(1970:2001)/PR
S16	14	S13 AND PY=1970:2001
S17	26	S15:S16

17/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2005 European Patent Office. All rts. reserv.

01138372

Interactive system for selecting television programmes  
Interaktives System zur Auswahl von Fernsehprogrammen  
Système interactif pour selectionner des programmes de télévision

PATENT ASSIGNEE:

4TV Limited, (3076880), 1 & 2 Brickfield Business Centre 60 Manchester Road, Northwich, Cheshire CW9 7LS, (GB), (Proprietor designated states: all)

INVENTOR:

AUSTIN, Kenneth, Weaverham Grange, 7 Beechwood Avenue, Hartford, Northwich, Cheshire CW8 3AR, (GB)

LEGAL REPRESENTATIVE:

Cardwell, Stuart Martin et al (52502), Roystons, Tower Building, Water Street, Liverpool, L3 1BA, (GB)

PATENT (CC, No, Kind, Date): EP 1099338 A1 010516 (Basic)  
EP 1099338 B1 040324  
WO 2000010327 000224

APPLICATION (CC, No, Date): EP 98949111 981021; WO 98GB3140 981021

PRIORITY (CC, No, Date): GB 9817421 980811

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

RELATED DIVISIONAL NUMBER(S) - PN (AN):

(EP 2003024184)  
(EP 2003024185)  
(EP 2003024186)  
(EP 2003024187)  
(EP 2004006825)  
(EP 2004006826)  
(EP 2004006827)  
(EP 2004006828)

INTERNATIONAL PATENT CLASS: H04N-005/445; H04N-005/775; H04N-007/173; H04N-005/00; H04N-005/44

NOTE:

No A-document published by EPO

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200413	634
CLAIMS B	(German)	200413	640
CLAIMS B	(French)	200413	705
SPEC B	(English)	200413	10792
Total word count - document A			0
Total word count - document B			12771
Total word count - documents A + B			12771

...CLAIMS B1

1. A system for selecting television programs for viewing comprising means (CPU, M, 87) for storing viewing preferences, means for using stored viewing preferences to generate an electronic list and characterised in that the view list is comprised of program suggestions for what to watch or record based on what is usually watched at a particular time on any day, and in that the system further comprises means (119) for the user to mark a broadcast program currently being displayed, means for using said marking to add said marked current program to said view list, and means (85) for displaying the view list.
2. A system as claimed in claim 1...

17/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2005 European Patent Office. All rts. reserv.

00637534

REPROGRAMMABLE TERMINAL FOR SUGGESTING PROGRAMS OFFERED ON A TELEVISION  
PROGRAM DELIVERY SYSTEM  
WIEDERHOLT PROGRAMMIERBARES ENDGERAT FUR PROGRAMMVORSCHLAGE EINES  
VERTEILSYSTEMS FUR FERNSEHPROGRAMME  
TERMINAL REPROGRAMMABLE DESTINE A SUGGERER DES PROGRAMMES PRESENTES DANS UN  
SYSTEME DE DISTRIBUTION DE PROGRAMMES DE TELEVISION

PATENT ASSIGNEE:

DISCOVERY COMMUNICATIONS, INC., (1818010), 7700 Wisconsin Avenue,,  
Bethesda, MD 20814-3522, (US), (Proprietor designated states: all)

INVENTOR:

HENDRICKS, John, S., 8723 Persimmon Tree Road, Potomac, MD 20854, (US)  
BONNER, Alfred, E., 8300 Bradley Boulevard, Bethesda, MD 20817, (US)  
WUNDERLICH, Richard, E., 290 Sweet Briar Court, Alpharetta, GA 30201,  
(US)

LEGAL REPRESENTATIVE:

Strehl Schubel-Hopf & Partner (100941), Maximilianstrasse 54, 80538  
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 673582 A1 950927 (Basic)  
EP 673582 B1 000301  
WO 9414284 940623

APPLICATION (CC, No, Date): EP 94903407 931202; WO 93US11708 931202

PRIORITY (CC, No, Date): US 991074 921209

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; NL; PT;  
SE

RELATED DIVISIONAL NUMBER(S) - PN (AN):

EP 909095 (EP 98121389)

INTERNATIONAL PATENT CLASS: H04N-007/16; H04N-007/173

NOTE:

No A-document published by EPO

LANGUAGE (Publication, Procedural, Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200009	3109
CLAIMS B	(German)	200009	2717
CLAIMS B	(French)	200009	3772
SPEC B	(English)	200009	20401
Total word count - document A			0
Total word count - document B			29999
Total word count - documents A + B			29999

...CLAIMS and

means for indicating one or more programs meeting a predetermined weight  
related threshold, wherein all other **programs** are excluded from  
**program suggestion**.

16. The apparatus of claim 15 wherein the means for transforming  
integrates the personal profile information and...

...any of claims 14 to 16, wherein the subscriber specific data further  
comprises the subscriber's desired **program viewing time frame**  
and desired **program length** and wherein the means for comparing  
comprises means for excluding **programs** for **suggestion** that are  
not in the subscriber's desired **viewing time frame** and desired  
length.

18. The apparatus of any of claims 1 to 17, wherein the subscriber...

...data.

19. The apparatus of any of claims 1 to 18, wherein the subscriber  
specific data includes **program watched** data.

20. The apparatus of any of claims 1 to 19 for **suggesting programs** to  
subscribers of a **television** program delivery system (200) by  
searching program abstracts stored in a database for key words mapped  
from...from a main menu.

37. The method of any of claims 33 to 36 used in a **television** program  
delivery system (200) for **suggesting programming** to subscribers,  
wherein the subscriber specific data is gathered by learning a  
subscriber's viewing habits and **suggesting programs** to a  
subscriber using the subscriber specific data, and wherein the step  
of gathering subscriber specific data comprises:

gathering subscriber historical data indicative of a subscriber's viewing habits, wherein the subscriber historical data is time and date sensitive;

and the step of generating subscriber programming preferences comprises:

analyzing the subscriber historical data...

...The method of claim 37, wherein the subscriber historical data is selected from the group consisting of **programs watched** data and channel **watched** data.

39. The method of any of claims 33 to 38 wherein the program control information includes...

...from a remote location.

40. The method of any of claims 33 to 39, used in a **television program delivery system** (200) for **suggesting programming** to subscribers by searching **television program abstracts** stored in a database for programs which correlate to key words mapped from subscriber specific

...

17/3,K/5 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01013358 \*\*Image available\*\*

**METHOD AND APPARATUS FOR RECOMMENDING ITEMS OF INTEREST BASED ON PREFERENCES OF A SELECTED THIRD PARTY**  
**PROCEDE ET DISPOSITIF PERMETTANT DE RECOMMANDER DES ARTICLES PRESENTANT UN INTERET EN FONCTION DES PREFERENCES D'UN TIERCE PARTIE CHOISIE**

Patent Applicant/Assignee:

KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA Eindhoven, NL, NL (Residence), NL (Nationality)

Inventor(s):

GUTTA Srinivas V R, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,

Legal Representative:

GROENENDAAL Antonius W M (agent), Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200343333 A1 20030522 (WO 0343333)

Application: WO 2002IB4423 20021022 (PCT/WO IB0204423)

Priority Application: US 200114202 20011113

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4439

Fulltext Availability:

Detailed Description

Detailed Description

... viewer, in a non-obtrusive manner. Explicit television program recommendation tools, on the other hand, explicitly question **viewers** about their preferences for **program** attributes, such as title, genre, actors, channel and date/ **time**, to derive **viewer** profiles and generate recommendations.

When selecting an item of interest, individuals are often influenced by the selections...

...trendsetters" often influence the viewing or purchase habits of others. Online retailers, such as Amazon.com, employ **collaborative filtering** techniques to recommend additional items to a customer based on selections made by other people who purchased...purchased this product also purchased certain other products.

In addition, many individuals often wish that they had **watched** a **television program** that was **watched** by a friend or colleague. There is currently no mechanism, however, to recommend television programs or other...

17/3,K/7 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
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01006867 \*\*Image available\*\*

METHOD AND SYSTEM FOR PRESENTING PERSONALIZED TELEVISION PROGRAM RECOMMENDATION TO VIEWERS  
PROCEDE ET SYSTEME POUR PRESENTER DES RECOMMANDATIONS DE PROGRAMMES  
TELEVISEES PERSONNALISES A DES TELESPECTATEURS

Patent Applicant/Assignee:

PREDICTIVE NETWORKS INC, 689 Massachusetts Avenue, Cambridge, MA 02139,  
US, US (Residence), US (Nationality)

Patent Applicant/Inventor:

THURSTON Nathaniel J, 40 Cedar Street No. 2 Right, Somerville, MA 02143,  
US, US (Residence), US (Nationality)

HOSEA Devin, 3 Gloucester Street No. 19, Boston, MA 02115, US, US  
(Residence), US (Nationality)

RENGER Thomas L, 12 Ellery Street # 405, Cambridge, MA 02138, US, US  
(Residence), US (Nationality)

Legal Representative:

JACOBS David (et al) (agent), Lucash, Gesmer & Updegrove LLP, 40 Broad  
Street, Boston, MA 02109, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200336970 A1 20030501 (WO 0336970)

Application: WO 2002US32529 20021011 (PCT/WO US0232529)

Priority Application: US 2001336270 20011025

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 2552

Fulltext Availability:

Claims

Claim

... user profile storage adapted to store viewer/user profiles having  
viewer/user characteristic information and indicia of **programs**  
previously viewed by  
viewers/users serviced by said service provider;  
d) a program recommendation information generator adapted to generate  
**program recommendation** information to users, said **program**  
**recommendation** information being adapted to be converted and displayed  
via an EPG, and said **program recommendation** information at least

comprising one **program recommendation** based upon a user's profile and at least one user profile of another user having predefined... characteristics include at least one viewer/user program preference.

16 The system in Claim 9, wherein said **program recommendation** infonnation generator is further adapted to substitute the **program recommendation** information with **program recommendation** information to **recommend programs** according to agreement between said service provider and program content providers or agents of program content providers...

17/3,K/9 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00967963 \*\*Image available\*\*

**TELEVISION PROGRAM SELECTION APPARATUS AND METHOD**

**DISPOSITIF ET PROCEDE DE SELECTION D'EMISSION TELEVISEE**

Patent Applicant/Assignee:

THOMSON LICENSING S A, 46, quai A. Le Gallop, F-92648 Boulogne Cedex, FR, FR (Residence), FR (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 2002102067 A1 20021219 (WO 02102067)

Application: WO 2002US18308 20020607 (PCT/WO US0218308)

Priority Application: US 2001879573 20010612

Designated States:

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5347

Fulltext Availability:

Claims

Claim

... characteristics are Topic and Theme, and said television program schedule data and said characteristics data for said **television program** being **viewed** by said user include relevancy data, and said characteristics weights are the sum of the number of time **periods** a **program** having a Topic-Theme is **viewed** by a user **times** relevancy of said Topic-Theme.

8 The apparatus of claims I further including means to identify one...

...The apparatus of claim I wherein one or more programs can be selected from said list of **suggested programs** displayed at said user interface and added to a user plan to view list.

10 A method for sorting a television program schedule to assist a user in selecting a **television program** for **viewing** or recording based on characteristics of **television programs** previously **watched** by said **viewer** comprising the steps of: receiving a schedule of television programs to be broadcast comprising scheduled broadcast time...in order of characteristic weights.

14 The method of claim 10 wherein upon sorting a list of **suggested programs** is displayed. and a user may select a program from said list, whereupon said user is reminded...

...and topic-theme relevance factors.

16 The method of claim 10 wherein characteristic weights are based on **time watched** and relevancy factors on a scale of 1 to 10 of characteristics of **programs watched** by a user.

17 The method of claims 10 wherein said characteristic weights are stored in counters which are incremented by a relevancy factor for each **time period** during which a user **views** a **television program** having a characteristic and a characteristic relevancy factor included in said program's broadcast information.

18 The...

17/3,K/10 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00967962 \*\*Image available\*\*

**A METHOD AND APPARATUS FOR GENERATING A LIST OF SUGGESTED SCHEDULED TELEVISION PROGRAMS**

**PROCEDE ET DISPOSITIF DE GENERATION D'UNE LISTE DE PROGRAMMES TELEVISES PROGRAMMES CONSEILLES**

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 2002102066 A1 20021219 (WO 02102066)

Application: WO 2002US18301 20020607 (PCT/WO US0218301)

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English  
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Fulltext Word Count: 4079

Fulltext Availability:

Claims

English Abstract

A system and method for generating a list of **suggested** scheduled **television programs** wherein **television** schedule guide data which comprises characteristics of scheduled programs and optionally relevancy of those characteristics is obtained from broadcast information. User profiles comprising characteristics of **television programs** previously **viewed**, the cumulative amount of **time programs** having those characteristics has been previously **viewed**, and optionally the relevancy of the previously viewed characteristics is stored. The user is allowed to manually...

...weights assigned to characteristics so as to override the system assigned weight values. The system calculates the **suggested** **program** list from the schedules it receives from broadcast or other means, using the characteristics weights in the...

Claim

1 A **television** system for displaying **suggested** scheduled **programs** comprising: memory means for storing data representing a user profile comprising characteristics and characteristic weights of **programs** **viewed** by said user; control means for automatically assigning characteristic weights in said user profile based on relevance and/or **time** logged as being **viewed** by said user, ranking scheduled **programs** based on characteristics of each scheduled program and relative characteristic weights in said user profile, generating a list of **suggested** scheduled **programs** according to said ranking, calculating characteristic percentages based on relative characteristic weights in said user profile and...of the number of 5 minute periods any program having a topic-theme 1 0 combination is **viewed** **times** the relevancy factor assigned by the broadcaster.

9 The apparatus of ...user program guide characteristic search preferences data for said plurality of users, and wherein said list of **suggested** scheduled **programs** is generated based on preferences data for one identified user.

10 A method of generating a list of **suggested** scheduled **television programs** comprising maintaining a user profile comprising characteristics of **programs** previously **viewed** by said user and characteristic weights calculated from the cumulative amount of **time** said user has **viewed** **programs** having each of said characteristics, using **television** schedule ...guide data which comprises characteristics of scheduled programs and optionally relevancy factors to calculate a list of **suggested** scheduled **programs**, and allowing a user to manually adjust said assigned weightings. 1 1. The method of claim 10...

17/3,K/11 (Item 7 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00933523 \*\*Image available\*\*  
**TELEVISION VIEWER PROFILE INITIALIZER AND RELATED METHODS**  
**DISPOSITIF D'INITIALISATION DE PROFILS DE TELESPECTATEURS ET PROCEDES ASSOCIES**

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Patent and Priority Information (Country, Number, Date):  
Patent: WO 200267578 A2-A3 20020829 (WO 0267578)  
Application: WO 2002IB356 20020201 (PCT/WO IB0200356)  
Priority Application: US 2001791999 20010222

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CN JP KR  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 3385

#### English Abstract

A **TV viewer** profile initializer for reducing the **time** it takes for an implicit profiler-based **TV recommender** to produce accurate **TV recommendations**. The profiles initializer utilizes stereotype profiles from a substantial pool of **TV viewing** behavior of a representative number of **TV viewers**. By applying clustering methods to such data, stereotype profiles can emerge. New viewers are then be offered a selection of stereotype profiles to choose from to initialize their own personal **TV viewing** profile. Thus, a single choice will suffice to provide a predictable **TV show recommender** that is presumably fairly close to a viewer's own preferences. After this initialization, the profile can...

17/3,K/12 (Item 8 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00915763 \*\*Image available\*\*  
METHOD AND APPARATUS FOR GENERATING RECOMMENDATIONS BASED ON CONSISTENCY OF SELECTION  
PROCEDE ET SYSTEME POUR GENERER DES RECOMMANDATIONS BASEES SUR LA COHERENCE DUNE SELECTION  
Patent Applicant/Assignee:  
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Eindhoven, NL, NL (Residence), NL (Nationality)  
Inventor(s):  
KURAPATI Kaushal, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,  
Legal Representative:  
GROENENDAAL Antonius W M (agent), Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200249357 A2-A3 20020620 (WO 0249357)  
Application: WO 2001EP14141 20011127 (PCT/WO EP0114141)  
Priority Application: US 2000736908 20001214  
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CN JP KR VN  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 3333

#### English Abstract

...selected relative to the number of times the item was offered. The present invention adjusts a conventional **program recommender** score based on a consistency metric. The exemplary consistency metric is defined as the ratio of the...

...over the number of times the item was offered in a given time period. In an exemplary **program recommendation** implementation, the consistency metric is defined as the ratio of the number of **times** a **program** was **watched** over the number of **times** the program was presented in a given time period. Generated recommendation scores can be increased or decreased...

17/3, K/13 (Item 9 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00909766

TELEVISION PROGRAM RECOMMENDER WITH INTERVAL-BASED PROFILES FOR DETERMINING TIME-VARYING CONDITIONAL PROBABILITIES  
SYSTEME DE RECOMMANDATION DE PROGRAMME DE TELEVISION A PROFILS BASES SUR DES INTERVALLES PERMETTANT DE DETERMINER DES PROBABILITES CONDITIONNELLES VARIABLES DANS LE TEMPS .

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Inventor(s):

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2001EP13418 20011116 (PCT/WO EP0113418)

Priority Application: US 2000718256 20001122

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CN JP KR VN

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Publication Language: English

Filing Language: English

Fulltext Word Count: 5280

Fulltext Availability:

Claims

Claim

... maintaining said user profile (400) as a plurality of viewing history windows (VHK), wherein each of said viewing history windows (VHK) corresponds to a different time interval.

2 The method of claim 1, wherein said user profile (400) is associated with a **television program recommender** (100).

3 The method of claim 1, wherein said behavior is a set of **programs** that have been **watched** by a user.

4 The method of claim 1, wherein said behavior is a set of purchases...  
...of occurrences for an earlier similar time interval.

17 A system for managing the storage of a **viewer** profile (400) in a **television program recommender** (100), comprising:

a memory (130) for storing computer readable code; and  
a processor (120) operatively...

...said memory (130), said processor (120) configured to:  
obtain a viewing history (200) indicating a set of **programs** that have been  
**watched** by a user; and  
maintain said viewing profile (400) as a plurality of viewing history

windows (VHK), wherein each of said viewing history windows (VHK) corresponds to a different time interval.

18 The system of claim 17 said processor (120) further configured to: 10 obtain a viewing history (200) indicating a number of occurrences of a plurality of features in programs that were watched by a viewer for a plurality of different time intervals; and delete from said viewer profile (400) any of said...

17/3,K/14 (Item 10 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00892366 \*\*Image available\*\*

**TELEVISION PROGRAM RECOMMENDER WITH AUTOMATIC IDENTIFICATION OF CHANGING VIEWER PREFERENCES**

**DISPOSITIF DE RECOMMANDATION DE PROGRAMME DE TELEVISION AVEC IDENTIFICATION AUTOMATIQUE DES EVOLUTIONS DANS LES PREFERENCES DES TELESPECTATEURS**

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200225939 A2-A3 20020328 (WO 0225939)

Application: WO 2001EP10413 20010907 (PCT/WO EP0110413)

Priority Application: US 2000666630 20000920

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CN JP KR

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Publication Language: English

Filing Language: English

Fulltext Word Count: 4421

Fulltext Availability:

Claims

English Abstract

A television program recommender is disclosed that automatically identifies changes in viewing preferences. Once changing viewing preferences are identified...

...in viewing preferences, the television programming recommender generates television program recommendations using a sub-set of the viewing history from a corresponding earlier time period. Likewise, for true or permanent changes in viewing preferences, the television programming recommender optionally generates television program recommendations using the most recent sub-set of the viewing history, which most likely reflects the current viewing preferences. In a further variation, program recommendations can be generated using a combination, such as the union or intersection, of recommendations based on viewing histories from two different periods of time. The television programming recommender can confirm that viewing preferences have not changed significantly over time, and thereafter delete portions of the viewing history without loss of any performance in the generated recommendations.

Claim

... method of claim 1, further comprising the step of presenting a user with a union set of recommended programs based on said sets of programs, SI and SK.

6 The method of claim 1, further...

...The method of claim 1 1, wherein said at least two portions, VHI and VHK, from said **viewing history** (200) are obtained by selecting a **time span** that is less than the entire **time period** covered by the **viewing history** (200).

15 The method of claim 14, wherein said selected time span is an earlier similar...

...at least two portions, VHI and VHK, from said viewing history (200); generate a corresponding set of **program recommendation scores**, SI and SK, for a set of programs in a given **time interval** based on said at least two **viewing history** (200) portions, VHI and VHK; and compare said sets of **program recommendation scores**, SI and SK, to identify a change in said viewer preferences.

17 The system (100) of claim 16, wherein said processor compares the top-N (where N is a positive integer) **recommended television programs** in each set, SI and SK

18 The system (1 00) of claim 16, wherein said processor...

...of claim 16, wherein said processor is ffirther configured to present a user with a set of **recommended programs** based on one or both of said sets of programs, SI and SK. The system (1 00...

...16, wherein said processor is ftu-ther configured to present a user with an intersection set of **recommended programs** based on said sets of programs, SI and SK

22 The system (100) of claim 16...VHI and VHK, from said viewing history (200); a step to generate a corresponding set of **program recommendation scores**, Si and SK, for a set of programs in a given **time interval** based on said at least two **viewing history** (200) portions, VHI and VHK; and a step to compare said sets of **program recommendation scores**, S 1 and SK, to identify a change in said viewer preferences. An article of manufacture for managing the storage of a viewer history in a **television program recommender**, comprising: a computer readable medium having computer readable code means embodied thereon, said computer readable program code...

...at least two I 0 portions, VHI and VHK; a step to generate a corresponding set of **program recommendation scores**, S 1 and SK, for a set of programs in a given **time interval** based on said **viewer profiles**, PI and PK; a step to compare said sets of **program recommendation scores**, SI and SK, to identify a change in said viewer preferences; and 1 5 a step to delete a portion of said viewing history if said sets of **program recommendation scores**, SI and SK are substantially similar.

17/3,K/15 (Item 11 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
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00869528 \*\*Image available\*\*

USER PROFILE WITH WEIGHTED PREMIUM CONTENT  
PROFIL UTILISATEUR A CONTENU PAYANT PONDÈRE

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200203671 A1 20020110 (WO 0203671)  
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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4925

Fulltext Availability:

Claims

Claim

... the viewing preferences to select a viewer profile from the plurality of viewer profiles upon determining which **viewer** is likely to **watch** at a given **day** and at given **time** .

12 The video system of Claim 1, wherein a weighting factor applied to a premium content is modifiable to selectively increase or decrease a **probability** of acceptance of the premium **content** by the **viewer** .

. A method of operating a **video** system, comprising:  
creating a **viewer** profile representing viewing preferences of a viewer;  
generating a set of data representing available video content, the...

17/3,K/16 (Item 12 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00865770 \*\*Image available\*\*

AUTOMATIC CONTENT VIEWING RECOMMENDATION FROM AMONG MULTIPLE PROGRAMMING SOURCES

RECOMMANDATIONS DE VISUALISATION AUTOMATIQUE DE CONTENUS A PARTIR DE PLUSIEURS SOURCES DE PROGRAMMES

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200199427 A2-A3 20011227 (WO 0199427)  
Application: WO 2001US19409 20010618 (PCT/WO US0119409)  
Priority Application: US 2000214029 20000622; US 2000653087 20000831

Parent Application/Grant:

Related by Continuation to: US 2000653087 20000831 (CIP); US 2000214029  
20000622 (CIP)

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10572

Patent and Priority Information (Country, Number, Date):

Patent: ... 20011227

Fulltext Availability:

Claims

Publication Year: 2001

Claim

... a user, the system comprising:  
a client delivery application that monitors and collects information relating to user viewing of content at a display device from among multiple program signals of content; and  
a network connection from which the client delivery application receives multiple program signals of content, transmits the information regarding user viewing of content, receives a recommended program signal of content likely to be of interest to the user in response to the received information relating to user viewing, and informs the user of the recommended program signal at the display device.

14 The system of Claim '13, wherein the monitored and collected information further comprises:

a unique identification number representing the client delivery application; and a channel number representing program content that is being viewed by the user;  
and  
a duration value representing the time that user has viewed a particular signal of program content.

15 The system of Claim 13, wherein the network connection further comprises:

at least one broadband channel...information  
further comprises:  
a unique identification number identifying each set top box;  
a channel number representing the program content viewed by the user;  
and  
a duration value representing the time that a user views a particular program content.

31 A method of providing content delivery to a user, the method comprising:

communicating at least one...

...set top box;  
receiving information relating to the user's viewing habits of at least one program signal content;  
determining a recommended program signal for the user based in part on the information relating to the user's viewing habits and available

program signal  
content ; and  
communicating the recommended program signal from the headend unit  
to the set top box for display to the user.

32 The...

17/3,K/17 (Item 13 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00855477 \*\*Image available\*\*  
**METHOD AND SYSTEM FOR PRESENTING AN ELECTRONIC PROGRAMMING GUIDE**  
**PROCEDE ET SYSTEME DE PRESENTATION D'UN GUIDE DE PROGRAMMATION ELECTRONIQUE**  
Patent Applicant/Assignee:  
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MediaOne Group Inc, 188 Inverness Drive West, Englewood, CO 80112, United  
States of America, US, US (Residence), US (Nationality)

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MCCLARD Anne P, 1264 Lambert Circle, Lafayette, CO 80026, US,  
STEVENS John Clarke, 5625 South Alamo Court, Littleton, CO 80123, US,

Legal Representative:  
CANAVAN Robert T (et al) (agent), AT & T Corp., P.O. Box 4110,  
Middletown, NJ 07748-4110, US,

Patent and Priority Information (Country, Number, Date):  
Patent: WO 200189206 A2-A3 20011122 (WO 0189206)  
Application: WO 2001US14662 20010504 (PCT/WO US0114662)  
Priority Application: US 2000571309 20000512

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CA JP MX  
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Publication Language: English

Filing Language: English

Fulltext Word Count: 4601

Patent and Priority Information (Country, Number, Date):  
Patent: ... 20011122

Fulltext Availability:

Claims

Publication Year: 2001

Claim

... guide.

11 The method of claim 7 further comprising:  
collecting a set of preferences from the end viewer ;  
20 and  
automatically copying programming information to a  
calendaring software application of the end viewer in accordance  
with the set of preferences...

...The method of claim 7 further comprising:  
processing information in a calendaring software  
application to determine available time slots for the end viewer ; and  
suggesting programs for the end viewer based on the  
available time slots.

13 The method of claim 7 wherein the  
programming information includes a program that is scheduled...

...occurrences, the method further comprising:  
processing information in a calendaring software

5 application to determine nine available **time** slots for the end **viewer** ;  
and  
upon selection of the **program** that is scheduled at  
multiple occurrences, suggesting at least one occurrence for the end  
**viewer** based on the available **time** slots.  
10 14. The method of claim 13 wherein the multiple  
occurrences include occurrences on different channels...

...comprising:  
upon selection of an available time slot in a  
25 calendaring software application for the end **viewer** , scheduling the  
**video** -on-demand **program** in the time slot.

19 The method of claim 17 further comprising:  
processing information in a calendaring software  
30 application to determine available **time** slots for the end **viewer** ;  
and  
upon selection of the **video** -on-demand **program** ,  
suggesting a time slot of the available **time** slots for the end  
**viewer** .

17/3,K/18 (Item 14 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00834128 \*\*Image available\*\*  
**APPARATUS AND METHOD FOR PROVIDING A PLURALITY OF INTERACTIVE PROGRAM GUIDE  
INITIAL ARRANGEMENTS**  
**DISPOSITIF ET METHODE FOURNISANT UNE PLURALITE DE VERSIONS INITIALES POUR  
GUIDE DE PROGRAMMES INTERACTIF**

Patent Applicant/Assignee:

SCIENTIFIC-ATLANTA INC, Intellectual Property Department, 5030 Sugarloaf  
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Inventor(s):

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MILLER Jack, 1040 Vintage Club Drive, Duluth, GA 30097, US,  
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Legal Representative:

GARDNER Kelly A (et al) (agent), Scientific-Atlanta, Inc., Intellectual  
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US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200167736 A2-A3 20010913 (WO 0167736)  
Application: WO 2001US6663 20010228 (PCT/WO US0106663)  
Priority Application: US 2000518041 20000302

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

BR CA JP  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Publication Language: English

Filing Language: English

Fulltext Word Count: 11588

Patent and Priority Information (Country, Number, Date):

Patent: ... 20010913

Fulltext Availability:

Claims

Publication Year: 2001

Claim

... first category of the relevant view highlighted, a favorite category  
the user has previously defined, or a **recommended** **program** in line

with the user's television watching habits. FIG. 12 is an example screen diagram of the IPG display 100 that illustrates the...

...1 of the IPG screen 100 enables the subscriber to scroll and choose to display a **time view**, a **theme view**, or **title view** similar to those views described above. The browse-by menu portion 101 initially takes the place...

17/3,K/20 (Item 16 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00825095 \*\*Image available\*\*

**ADAPTIVE TV PROGRAM RECOMMENDER**

**SYSTEME ADAPTATIF DE RECOMMANDATION D'EMISSIONS DE TELEVISION**

Patent Applicant/Assignee:

KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA  
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Inventor(s):

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Legal Representative:

GROENENDAAL Antonius W M (agent), Internationaal Octrooibureau B.V.,  
Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200158145 A2-A3 20010809 (WO 0158145)

Application: WO 2001EP816 20010125 (PCT/WO EP0100816)

Priority Application: US 2000498271 20000204

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

JP KR

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Publication Language: English

Filing Language: English

Fulltext Word Count: 4903

Patent and Priority Information (Country, Number, Date):

Patent: ... 20010809

Fulltext Availability:

Claims

Publication Year: 2001

Claim

... a television program is a desired one, based on a viewer profile (103) and data regarding the television program ; and supplying a recommendation regarding the television program based on the probability.

25 The at least one medium (I 10) of claim 24, wherein the...

...comprising:

a list of feature values; and for each element of the list, a respective number of times programs having that feature value were watched .

26 The at least one medium (I 10) of claim 25, wherein the data structure (Fig. 4) further comprises, for each element of the list, a respective number of times programs having that feature value were not watched .

27 The at least one medium (I 10) of claim 26, wherein the software is further arranged...

17/3,K/22 (Item 18 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00813583 \*\*Image available\*\*

INTELLIGENT SYSTEM AND METHODS OF RECOMMENDING MEDIA CONTENT ITEMS BASED ON  
USER PREFERENCES

SYSTEME INTELLIGENT ET PROCEDES DESTINES A RECOMMANDER DES ARTICLES A  
CONTENU MULTIMEDIA SUR LA BASE DE PREFERENCES UTILISATEUR

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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(Nationality), (Designated only for: US)

VAN STAM Wijnand, 1397 Sydney Drive, Sunnyvale, CA 94087, US, US  
(Residence), NL (Nationality), (Designated only for: US)

Legal Representative:

GLENN Michael (et al) (agent), Glenn Patent Group, Suite L., 3475 Edison  
Way, Menlo Park, CA 94025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200147257 A1 20010628 (WO 0147257)

Application: WO 2000USS33876 20001214 (PCT/WO US0033876)

Priority Application: US 99171829 19991221

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB  
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA  
MD MG MK MN MW NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA  
UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10426

Patent and Priority Information (Country, Number, Date):

Patent: ... 20010628

Fulltext Availability:

Detailed Description

Publication Year: 2001

Detailed Description

... s preferences, U.S. Patent No. 5,410, 344 (April 25, 1995) describe a  
method for selecting **television programs** according to  
expressed **viewer** preferences that employs an adaptive prediction  
algorithm. Television programs are described in terms of attributes. A  
viewer

@3

explicitly rates different attribute-value pairs, also known as features.  
Based on these explicit **viewer** ratings, a neural network rates  
**television** programs.

Programs with a high enough score are automatically recorded for **viewing**  
at a later **time** . The described method, however, must use explicit  
ratings, it  
does not employ ...method for recommending items, U.S. Patent No.

4,996,642 (February 26, 1991). Employs a conventional **collaborative**  
**filtering** algorithm to recommend movies to a customer from the  
inventory in a video store. The customer uses a scalar rating system to  
rate **movies** they have **viewed** . The resulting profile is paired with  
profiles of other customers  
who have rated at least a portion...

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00789654

SELECTION AND ADAPTATION SYSTEM AND METHOD FOR THE DELIVERY OF INDIVIDUALIZED TELEVISION COMMERCIAL(S) TO AN IDENTIFIED ADVANCED TELEVISION VIEWER

SYSTEME ET PROCEDE DE SELECTION ET D'ADAPTATION POUR LA DISTRIBUTION D'ANNONCES TELEVISEES A UN TELESPECTATEUR IDENTIFIE D'UNE TELEVISION EVOLUEE

Patent Applicant/Inventor:

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VASILAKOS John, Suite 600, 700 West Pender Street, Vancouver, British Columbia V6C 1G8, CA, CA (Residence), CA (Nationality)

Legal Representative:

MANNING Gavin N (agent), Oyen Wiggs Green & Mutala, Suite 480, 601 West Cordova Street, Vancouver, British Columbia V6B 1G1, CA,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200122731 A1 20010329 (WO 0122731)

Application: WO 2000CA627 20000530 (PCT/WO CA0000627)

Priority Application: CA 2284438 19990922

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

US

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 3959

Patent and Priority Information (Country, Number, Date):

Patent: ... 20010329

Fulltext Availability:

Claims

Publication Year: 2001

Claim

... data and information associated with the said unidentified viewers actions since the beginning of the said television viewing session (e.g. time of day, type of show being viewed) may/will be utilized for the purpose of guessing as to the identify of the viewer conducting the television viewing session at the said Remote Viewer Module, and further wherein the Viewer Profile of the said guessed...

17/3,K/25 (Item 21 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00541335 \*\*Image available\*\*

TELEVISION SYSTEM WITH AIDED USER PROGRAM SEARCHING

SYSTEME DE TELEVISION AVEC RECHERCHE DE PROGRAMMES TELEVISES PAR UN UTILISATEUR ASSISTE

Patent Applicant/Assignee:

UNITED VIDEO PROPERTIES INC,

Inventor(s):

BOYER Franklin E,

DEMERS Timothy B,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200004708 A1 20000127 (WO 0004708)

Application: WO 99US16040 19990716 (PCT/WO US9916040)

Priority Application: US 9893197 19980717; US 99330793 19990611

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK

MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU  
ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH  
CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW  
ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 19610

Patent and Priority Information (Country, Number, Date):

Patent: ... 20000127

Fulltext Availability:

Claims

Publication Year: 2000

Claim

1. A method for aiding a user who is viewing a program airing on a current channel in identifying another program to view, comprising: monitoring which television programming is viewed by the user; determining at least one program attribute of the monitored television programming; identifying program listings for programs that are suggested based on the program attribute; and allowing the user to browse the program listings for the suggested programs by displaying the program airing on the current channel and simultaneously displaying a display region containing the program listing for one of the suggested programs.

2 The method of claim 1 wherein the determining comprises determining whether the program airing on the current channel has been viewed for a predetermined period.

3 The method of claim 1 wherein the program attribute is selected from the consisting of program...

...of the current program in identifying program listings.

27 A system for aiding a user who is viewing a program airing on a current channel in identifying another program to view, comprising: means for monitoring which television programming is viewed by the user; means for determining at least one program attribute of the monitored television programming; means for identifying program listings for programs that are suggested based on the program attribute; and means for allowing the user to browse the program listings for the suggested programs by displaying the program airing on the current channel and simultaneously displaying a display region containing the program listing for one of the suggested programs.

28 The system of claim 27 wherein said means for determining determines whether the program airing on the current channel has been viewed for a predetermined period.

29 The system of claim 27 wherein the program attribute is selected from the consisting of program...of the current program in

File 8:EI Compendex(R) 1970-2005/Jan W3  
     (c) 2005 Elsevier Eng. Info. Inc.  
 File 35:Dissertation Abs Online 1861-2005/Jan  
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 File 65:Inside Conferences 1993-2005/Feb W2  
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 File 2:INSPEC 1969-2005/Feb W1  
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 File 94:JICST-EPlus 1985-2005/Jan W1  
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 File 483:Newspaper Abs Daily 1986-2005/Feb 17  
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 File 144:Pascal 1973-2005/Feb W1  
     (c) 2005 INIST/CNRS  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
     (c) 1998 Inst for Sci Info  
 File 34:SciSearch(R) Cited Ref Sci 1990-2005/Feb W2  
     (c) 2005 Inst for Sci Info  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Jan  
     (c) 2005 The HW Wilson Co.  
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
     (c) 2002 The Gale Group  
 File 266:FEDRIP 2004/Nov  
     Comp & dist by NTIS, Intl Copyright All Rights Res  
 File 95:TEME-Technology & Management 1989-2005/Jan W2  
     (c) 2005 FIZ TECHNIK  
 File 438:Library Lit. & Info. Science 1984-2005/Jan  
     (c) 2005 The HW Wilson Co  
 File 248:PIRA 1975-2005/Jan W3  
     (c) 2005 Pira International

Set	Items	Description
S1	1562	FILTER???(3N) (COLLABORAT? OR COOPERAT? OR CO()OPERAT???)
S2	13106730	PROGRAM? ? OR PROGRAMMING OR SHOW? ? OR TV OR TELEVISION OR MOVIE? ? OR FILM? ? OR VIDEO? ? OR PPV OR SELECTION? ?
S3	17051005	MATERIAL? ? OR CONTENT? ? OR MEDIA OR MULTIMEDIA OR MUSIC - OR SONG? ? OR AUDIO OR DATA OR INFORMATION OR ITEM? ?
S4	847766	S2:S3(5N) (VIEW??? OR REVIEW??? OR WATCH??? OR SEE OR SEEING OR LOOK??? OR OBSERV??? OR HEAR??? OR LISTEN??? OR ENJOY??? - OR EXPERIENC???)
S5	506857	S2:S3(7N) (RECOMMEND? OR SUGGEST?)
S6	13990	S4(7N) (LIKELY OR LIKELIHOOD OR PROBABILITY OR PROBABLE OR - GUESS??? OR PREDICT? OR INFER??? OR INFERENCE? ?)
S7	11501340	TIME OR TIMES OR TEMPORAL? OR PERIOD? ? OR DAY? ? OR WEEK? ? OR WEEKLY OR MORNING OR EVENING OR AFTERNOON OR NIGHT?? OR - PRIMETIME
S8	625460	S7(10N) (VIEW??? OR WATCH??? OR SEE OR SEEING OR LOOK??? OR OBSERV??? OR HEAR??? OR LISTEN??? OR ENJOY??? OR EXPERIENC???)
S9	4	S1 AND S4 AND S8
S10	2242	S5 AND S4 AND S8
S11	14252674	PROGRAM? ? OR PROGRAMMING OR SHOW? ? OR TV OR TELEVISION OR MOVIE? ? OR FILM? ? OR VIDEO? ? OR PPV OR CONTENT? ? OR MEDIA OR MULTIMEDIA
S12	368557	S11(5N) (VIEW??? OR REVIEW??? OR WATCH??? OR SEE OR SEEING - OR LOOK??? OR OBSERV???)
S13	93890	S11(5N) (RECOMMEND? OR SUGGEST?)
S14	422	S12 AND S13 AND S8
S15	51848	S7(7N) (VIEW??? OR WATCH???)
S16	165	S13 AND S12 AND S15
S17	139	RD (unique items)
S18	101	S17 NOT PY=2002:2005
S19	76	S18 AND (TV OR TELEVISION)
S20	2	RD S9 (unique items)
S21	4238	S12(7N) (LIKELY OR LIKELIHOOD OR PROBABILITY OR PROBABLE OR GUESS??? OR PREDICT? OR INFER??? OR INFERENCE? ?)
S22	135	S21 AND S15

S23 110 RD (unique items)  
S24 105 S23 NOT S18  
S25 75 S24 NOT PY=2002:2005

19/5/7 (Item 6 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01573958 ORDER NO: AADMM-16994  
TELEVISION TIME (BROADCAST TELEVISION , VIEWING PRACTICES)  
Author: MACKAY, JANE ELIZABETH  
Degree: M.A.  
Year: 1996  
Corporate Source/Institution: SIMON FRASER UNIVERSITY (CANADA) (0791)  
Supervisor: BARRY TRUAX  
Source: VOLUME 35/05 of MASTERS ABSTRACTS.  
PAGE 1092. 142 PAGES  
Descriptors: MASS COMMUNICATIONS ; ANTHROPOLOGY, CULTURAL  
Descriptor Codes: 0708; 0326  
ISBN: 0-612-16994-4

This study is an investigation of formal structures in popular North American broadcast television. It is an examination of the television text as constructed by both broadcasters and viewers, based on Raymond Williams' middle-range analysis of flow. The objective of the study is to shed light on ideological process in television, specifically the structural genesis of a discourse of time.

Television viewing by a sample of Ontario college students is examined empirically using videotape recordings of home viewing sessions by eight of these students. The recordings were analyzed with particular emphasis on duration, sequence, and temporal perspective of units of content. Temporal perspective includes time tense and mode of address. Information in regard to viewing context was provided by questionnaire self-reports.

The study highlights the structural aspects of television in transmission and viewing practices. The viewing session videotapes suggest an agreement between broadcasters and young North American viewers in regard to the speed of change in television flow. The recordings emphasize the present in both sound and picture with substantial second-person audio. Patterns of channel changing by viewers reveal switching activity throughout the viewing session. Viewers appear to switch channels to change programs rather than avoid commercials. They switch channels more often during program content, especially news and documentary.

Television is shown to be a practice of fast-paced change and discontinuity. It is communication situated in a temporal present overlaid with imperative demands. This temporality appears to be inscribed in the structure of television flow. The study suggests an unacknowledged connection between television and social meaning.

19/5/12 (Item 11 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01313569 ORDER NO: AAD93-30047  
PATTERNS OF TELEVISION VIEWING : PREDICTING TELEVISION VIEWING BEHAVIOR  
Author: CHO, SUNG HO  
Degree: PH.D.  
Year: 1993  
Corporate Source/Institution: STATE UNIVERSITY OF NEW YORK AT BUFFALO (0656)  
Director: GEORGE A. BARNETT  
Source: VOLUME 54/06-A OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1986. 200 PAGES  
Descriptors: MASS COMMUNICATIONS  
Descriptor Codes: 0708

This dissertation examined overall television viewing patterns in average households in the Chicago area. Based on the results of spectral analysis the suggested various television viewing models, such as

annual, semi-annual, quarter-annual, weekly, and daily, were applied to selected television data sets in order to examine the predictability of each model. The daily model explained about 90% of television viewing for the analysis based on the day of the week. Both the annual and daily models explained over 92% of television viewing variance for each data set from Monday to Sunday. Further, the origins of annual, semi-annual, and weekly cycles were revealed with the analysis based on the time of the day. In addition, the prime time analysis revealed the presence of a quarter-annual cycle.

The overall results indicated that television viewing behavior can be accurately predicted with the suggested models (annual, semi-annual, quarter-annual, weekly, and daily). Further, the consideration of various other factors, such as weather conditions, special programming, and social events may increase the predictability of overall television viewing. For example, a nice summer evening may attract audience to enjoy outdoor activities instead of watching television. The results of this dissertation provides ideas about the average individuals' overall television viewing behavior and their use of free time. Finally, the suggested television viewing models provide the basis describing the flow of audience.

19/5/41 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
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6505027 INSPEC Abstract Number: B2000-03-6430-007, C2000-03-7210N-066  
Title: Surfing the digital wave. Generating personalised TV listings using collaborative, case-based recommendation  
Author(s): Smyth, B.; Cotter, P.  
Author Affiliation: Dept. of Comput. Sci., Univ. Coll. Dublin, Ireland  
Conference Title: Case-Based Reasoning Research and Development. Third International Conference on Case-Based Reasoning, ICCBR-99. Proceedings (Lecture Notes in Artificial Intelligence Vol.1650) p.561-71  
Editor(s): Althoff, K.-D.; Bergmann, R.; Branting, L.K.  
Publisher: Springer-Verlag, Berlin, Germany  
Publication Date: 1999 Country of Publication: Germany xii+598 pp.  
ISBN: 3 540 66237 5 Material Identity Number: XX-1999-02391  
Conference Title: Case-Based Reasoning Research and Development. Third International Conference on Case-Based Reasoning, ICCBR-99  
Conference Sponsor: American Assoc. Artificial Intelligence; AcknoSoft; BSR Consulting; DaimlerChrysler; et al  
Conference Date: 27-30 July 1999 Conference Location: Seeon Monastery, Germany  
Language: English Document Type: Conference Paper (PA)  
Treatment: Practical (P)  
Abstract: In the future, digital TV will offer an unprecedented level of programme choice. We are told that this will lead to dramatic increases in viewer satisfaction as all viewing tastes are catered for all of the time. However, the reality may be somewhat different. We have not yet developed the tools to deal with this increased level of choice (for example, conventional TV guides will be virtually useless), and viewers will face a significant and frustrating information overload problem. The paper describes a solution in the form of the PTV system. PTV employs user profiling and information filtering techniques to generate Web based TV viewing guides that are personalised for the viewing preferences of individual users. The paper explains how PTV constructs graded user profiles to drive a hybrid recommendation technique, combining case based and collaborative information filtering methods. The results of an extensive empirical study to evaluate the quality of PTV's case based and collaborative filtering strategies are also described. (11 Refs)

Subfile: B C  
Descriptors: case-based reasoning; digital television ; groupware; information resources; information retrieval  
Identifiers: digital wave; personalised TV listings; collaborative case based recommendation; digital TV ; programme choice; information overload problem; PTV system; user profiling; information filtering techniques; Web based TV viewing guides; viewing preferences; individual users; graded

user profiles; hybrid recommendation technique; collaborative information filtering methods; collaborative filtering strategies

Class Codes: B6430 (Television equipment, systems and applications); C7210N (Information networks); C6130G (Groupware); C6170K (Knowledge engineering techniques); C7250R (Information retrieval techniques)

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19/5/44 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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04097706 JICST ACCESSION NUMBER: 99A0643441 FILE SEGMENT: JICST-E

TV Program Planning Agent using Analysis Method of User's Taste.

YAGAWA YUICHI (1); UKAI HIROMI (1); TANAKA TETSUO (1); SHIBATA MASAHIRO (2); KIM Y-B (2)

(1) Hitachi, Ltd., System Dev. Lab.; (2) Japan Broadcast. Corp. Sci. and Tech. Res. Lab.

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report (Institute of Electronics, Information and Communication Engineers), 1998, VOL.98,NO.437(AI98 54-61), PAGE.9-16, FIG.4, TBL.7, REF.9

JOURNAL NUMBER: S0532BBG

UNIVERSAL DECIMAL CLASSIFICATION: 621.397.62

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: In the arrival of a multiple channel service caused by digital broadcasting, although the width of program choice increases for users, users have difficulty in finding favorite programs. In this paper, we present a "TV Program Planning Agent", which analyzes users' tastes from their personal histories and programs' information (EPG), and which filters and **recommend programs** based on users' tastes. A more detailed taste analysis becomes possible every time users **view programs**. In the evaluation experiment, the most fundamental method succeeded in filtering of the user's favorite programs in the probability of 82%. The result of this research can be applied to the automatic video-recording function of "Home Video Server" and "Agent TV". (author abst.)

DESCRIPTORS: television receiver; agent; broadcast program; information retrieval; preference; audience

IDENTIFIERS: digital broadcasting

BROADER DESCRIPTORS: receiver; transceiver; communication apparatus; equipment; retrieval

CLASSIFICATION CODE(S): ND12033V

19/5/52 (Item 6 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

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05469923

The Small Screen --- Time Machines: A whole new kind of device to record TV shows is on the way; It'll be watching you

Westbrook, William

Wall Street Journal, Sec R, p 11, col 1

Mar 22, 1999

ISSN: 0099-9660 NEWSPAPER CODE: WSJ

DOCUMENT TYPE: Feature; Newspaper

LANGUAGE: English RECORD TYPE: ABSTRACT

LENGTH: Long (18+ col inches)

ABSTRACT: What makes time-shifting simpler than with a VCR is that these machines handle the details. They are attached, by telephone line or satellite, to proprietary sources of information on all the programs that will be available to the viewer for the next week or two. The WebTV/EchoStar machines, as well as competing devices from Replay Networks Inc., Palo Alto, Calif., present the information in a grid, while a third

version, from TiVo Inc., Sunnyvale, Calif., has a more elaborate interface. All three versions of the machines are scheduled to go on sale this month or next. To make it easy to the point of eeriness, the TiVo machine's software will actually track a viewer's preferences and immediately start suggesting other programs that the viewer might like to record. The viewer will be able to influence the software's future choices by use of "thumbs-up" and "thumbs-down" buttons, pressing them either when watching a program or when presented with a list of suggestions. If not given any direction, the software will automatically record its selections -- assuming there's room. The automatically recorded programs will then appear on the same list as the programs the viewer has recorded. The machines can also eliminate the possibility of recording over something by accident, or of having the tape run out before something is fully recorded. That's because they record on a hard drive, like those found in computers, and know what's already stored there and how much room remains available for recording. If a viewer asks the TiVo or Replay machine to record something that exceeds its free space, the machine will prompt the viewer to delete enough material to make room.

File 275:Gale Group Computer DB(TM) 1983-2005/Feb 18  
     (c) 2005 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2005/Feb 18  
     (c) 2005 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2005/Feb 18  
     (c) 2005 The Gale Group  
 File 16:Gale Group PROMT(R) 1990-2005/Feb 18  
     (c) 2005 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2005/Feb 17  
     (c) 2005 The Gale Group  
 File 624:McGraw-Hill Publications 1985-2005/Feb 18  
     (c) 2005 McGraw-Hill Co. Inc  
 File 15:ABI/Inform(R) 1971-2005/Feb 18  
     (c) 2005 ProQuest Info&Learning  
 File 647:CM Computer Fulltext 1988-2005/Jan W5  
     (c) 2005 CMP Media, LLC  
 File 674:Computer News Fulltext 1989-2005/Feb W2  
     (c) 2005 IDG Communications  
 File 696:DIALOG Telecom. Newsletters 1995-2005/Feb 18  
     (c) 2005 The Dialog Corp.  
 File 369:New Scientist 1994-2005/Feb W1  
     (c) 2005 Reed Business Information Ltd.  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
     (c) 1999 PR Newswire Association Inc  
 File 610:Business Wire 1999-2005/Feb 18  
     (c) 2005 Business Wire.  
 File 613:PR Newswire 1999-2005/Feb 18  
     (c) 2005 PR Newswire Association Inc

Set	Items	Description
S1	2385	FILTER???(3N) (COLLABORAT? OR COOPERAT? OR CO()OPERAT???)
S2	16594649	PROGRAM? ? OR PROGRAMMING OR SHOW? ? OR TV OR TELEVISION OR MOVIE? ? OR FILM? ? OR VIDEO? ? OR PPV OR CONTENT? ? OR MEDIA OR MULTIMEDIA
S3	1071983	S2(5N) (VIEW??? OR REVIEW??? OR WATCH??? OR SEE OR SEEING OR LOOK??? OR OBSERV???)
S4	123291	S2(5N) (RECOMMEND? OR SUGGEST?)
S5	9703	S3(7N) (LIKELY OR LIKELIHOOD OR PROBABILITY OR PROBABLE OR - GUESS??? OR PREDICT? OR INFER??? OR INFERENCE? ?)
S6	19333215	TIME OR TIMES OR TEMPORAL? OR PERIOD? ? OR DAY? ? OR WEEK? ? OR WEEKLY OR MORNING OR EVENING OR AFTERNOON OR NIGHT?? OR - PRIMETIME
S7	340608	S6(7N) (VIEW??? OR WATCH???)
S8	10	S1(50N)S3(50N)S7
S9	834	S4(50N)S3(50N)S7
S10	701	S5(50N)S7
S11	6	RD S8 (unique items)
S12	510	S4(20N)S3(20N)S7
S13	477061	S2(5N) (VIEW??? OR WATCH???)
S14	609	S4(30N)S13(30N)S7
S15	2293	S13(5N) (RECOMMEND? OR SUGGEST?)
S16	248	S15(50N)S7
S17	215	S15(30N)S7
S18	142	RD (unique items)
S19	66087	S7(7N)S2
S20	539	S4(30N)S13(30N)S19
S21	193	S15(30N)S19
S22	25	S4(50N)S5(50N)S7
S23	13	RD (unique items)

11/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

02092266 SUPPLIER NUMBER: 19684784 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Alexa's theory of relativity. (Alexa Internet) (Product Announcement)**  
Rapoza, Jim  
PC Week, v14, n35, p42(1)  
August 18, 1997  
DOCUMENT TYPE: Product Announcement ISSN: 0740-1604 LANGUAGE:  
English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1484 LINE COUNT: 00116

... sense.  
Alexa Internet Inc., San Francisco (415) 561-6900 www.alexa.com  
Scoring methodology: www.pcweek.com/ reviews /meth.html  
A promising beta program from a San Francisco startup helps Web  
users find useful information by applying collaborative filtering  
technology to the entire Web.

Alexa, from Alexa Internet Inc., provides a series of links to Web  
sites that are related to the one the user is viewing. PC Week Labs  
found it very straightforward to use, letting us view basic information  
such as a Web site...

11/3,K/2 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2005 The Gale Group. All rts. reserv.

02620209 Supplier Number: 64773982 (USE FORMAT 7 FOR FULLTEXT)  
**Eprise and Net Perceptions Team to Deliver Comprehensive Personalization  
Capabilities to Eprise Participant Server Clients.**  
Business Wire, p0100  
August 28, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 835

... user roles, profiles, and other attributes. Net Perceptions' personalization solutions deliver the industry standard for recommendations using collaborative filtering technology. This allows the individual consumer's taste to guide the products, services, and information they're offered. The combination allows business users to deliver dynamic content to the right viewer at the right time more easily than ever before, ultimately saving time and cutting down on the frustration of clicking through...

11/3,K/3 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03500195 Supplier Number: 47222975 (USE FORMAT 7 FOR FULLTEXT)  
**Internet and Online**  
Multimedia Wire, v4, n54, pN/A  
March 19, 1997  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 135

ESPN SportsZone teamed with CyberCash [CYCH] to enable access to its premium content on a single- day viewing basis. The price starts at \$1/ day. (Starwave, Jennifer Yazzolino, 206/957-2026)  
Online bookseller Amazon.com announced twice as many titles, new pricing...

...out-of-print books. It also cut prices 40 on several catagories, and unveiled MatchMaker, which uses collaborative filtering technology, to

recommend books to customers. (Amazon.com, Jennifer Cast, 206/346-2853)  
COPYRIGHT 1997 Phillips Business...

11/3,K/4 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

04254859 Supplier Number: 46231111 (USE FORMAT 7 FOR FULLTEXT)  
From dating to voting, collaborative filtering will make our choices easier  
InfoWorld, p052  
March 18, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 732

... site, called Firefly, is a place to get music recommendations, at <http://www.ffly.com>. Firefly uses collaborative filtering, which Lashkari was happy to explain. Collaborative filtering is made up of a variety of technologies for weighing ratings from an on-line community and transforming them into recommendations. I am now more convinced than ever that collaborative filtering will evolve into one of the big technologies of the Information Age.

My favorite example of collaborative filtering is not presidential elections but video rentals. It goes something like this: You are returning a video you watched last night. The rental store clerk asks you to rate the video from 1 to 10. He types your...

...likely to enjoy. Or all this happens in front of your interactive television via video on demand.

Collaborative filtering through the Internet would not be just for videos but also for books, restaurants, cars, resorts, blind...

11/3,K/5 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c) 2005 The Gale Group. All rts. reserv.

08542774 SUPPLIER NUMBER: 18113950 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
From dating to voting, collaborative filtering will make our choices easier. (From the Ether) (Internet  
Metcalf, Bob  
InfoWorld, v18, n12, p52(1)  
March 18, 1996  
DOCUMENT TYPE: Column ISSN: 0199-6649 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 773 LINE COUNT: 00062

... site, called Firefly, is a place to get music recommendations, at <http://www.ffly.com>. Firefly uses collaborative filtering, which Lashkari was happy to explain. Collaborative filtering is made up of a variety of technologies for weighing ratings from an on-line community and transforming them into recommendations. I am now more convinced than ever that collaborative filtering will evolve into one of the big technologies of the Information Age.

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Collaborative filtering through the Internet would not be just for videos but also for books, restaurants, cars, resorts, blind...

11/3,K/6 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2005 ProQuest Info&Learning. All rts. reserv.

02051358 57306565

**A personalized television listings service**

Smyth, Barry; Cotter, Paul

Association for Computing Machinery. Communications of the ACM v43n8 PP:  
107-111 Aug 2000

ISSN: 0001-0782 JRNLD CODE: GACM

WORD COUNT: 2488

...TEXT: techniques complement each other perfectly For example, content-based filtering can solve the latency problems associated with **collaborative filtering** . Furthermore, the diversity problem associated with content-based methods is solved by introducing a collaborative component. By integrating both content-based and **collaborative filtering** strategies, the ClixSmart personalization engine provides a unique and powerful personalization solution.

PTV Adds a Personal Touch...

...discover what programs are on in a given week, never mind locating a small set of relevant **programs** for a quiet **evening 's viewing** . The digital **TV** vendors do recognize this as a serious problem, and they are now offering electronic program guides (EPGs...

23/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02429825 SUPPLIER NUMBER: 64360946 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**It's your future! (Internet/Web/Online Service Information)**  
Internet Magazine, 54  
August, 2000  
ISSN: 1355-6428 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 8786 LINE COUNT: 00675

... significant new interface developments which will include natural speech recognition that works. In 20 years, it's **likely** our PC will be on a thin **film** that we can unravel, **view** images and text, write on, talk to, be entertained by and use to communicate with. GRAHAME COHEN...

...50s dream of the future on drugs! In the living room, the Net will be compiling its **suggested** **film** **viewing** for the **evening** based on what it knows I like. In the car on the way home, it will be...

23/3,K/2 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

02375928 SUPPLIER NUMBER: 59636072 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Stanford Study Says Internet Transforming Daily Life 02/16/00 >By Sherman Friedman. (Industry Trend or Event)**  
Newsbytes PM, NA  
Feb 16, 2000  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 993 LINE COUNT: 00079

... time reading newspapers.

According to Erbring, who is also a professor of mass communications, the reduction in **TV** **viewing** "is **likely** to have a major impact on the economics of the **media** industry and, as recent developments **suggest**, may lead to further integration of media and information delivery technologies."

According to the study, the least...

23/3,K/3 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou. (R)  
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03880516 Supplier Number: 126728280 (USE FORMAT 7 FOR FULLTEXT)  
**Sony Stakes Out HD Leadership Position; Company's Unique Combination of Products, Content and Services Help Create, Share and Enhance the Enjoyment of High-Definition Entertainment.**  
PR Newswire, pNA  
Jan 6, 2005  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 726

... as an important growth engine for high-definition content with demand streaming both from consumers and the **content** community. Sony **suggested** that to its first products using blue laser-based optical technology will be available in the U...

...next year or two.

Emphasis was also placed on such proven successes as LCD technology, which was **predicted** to be the standard of choice for **watching** high-definition **content** in the coming year. And Fidler noted that Sony is well-poised to make the most of...  
...products.

Sony's HD leadership was also attributed to exclusive technology

like 3 LCD which improves the viewing experience by optimizing color reproduction full-time, across the entire screen and serves as the foundation for Sony's market-leading Grand WEGA rear...

23/3,K/4 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03570058 Supplier Number: 47387890 (USE FORMAT 7 FOR FULLTEXT)

**BSkyB claims 'win-win' position on digital**

New Media Markets, pN/A

May 15, 1997

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 1500

... compression.

\* A pay-per-view service offering mainly films, but with some sports and special events. Films, likely to cost around GBP3 per view, would be shown with staggered start times and would be transmitted six months before their airing on BSkyB's premium film channels.

\* Interactive services...

...issue for BSkyB in launching digital is ensuring that it does not cannibalise its existing lucrative pay-television revenues.

Many observers have suggested that this concern has been a prime reason for BSkyB's slowness to embrace digital. With 6...

23/3,K/5 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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01860829 Supplier Number: 43195979 (USE FORMAT 7 FOR FULLTEXT)

**Couch Potatoes & Cholesterol: Pediatricians Link TV Habits & Health**

Youth Markets Alert, v4, n8, pN/A

August, 1992

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 258

... finds a strong correlation between TV viewing and several health behavioral factors, including exercise and diet.

Children watching more than four hours of TV per day are significantly less likely to consume lean meat and/or to remove chicken skin before eating chicken, and also less likely...

...sports or to engage in continuous physical activity outside of school.

According to the researchers, the findings suggest that excessive TV viewing may be a key indicator of the generally unhealthy lifestyle habits commonly associated with later cardiovascular...

23/3,K/6 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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11332304 Supplier Number: 119352560 (USE FORMAT 7 FOR FULLTEXT)

**Too much TV 'turns young into fat adults'. (News)**

Derbyshire, David

Daily Telegraph (London, England), p08

July 16, 2004

Language: English Record Type: Fulltext

Document Type: Newspaper; General

Word Count: 488

... cholesterol, 17 per cent of smoking and 15 per cent of "poor

"cardiovascular fitness" was attributable to watching more than two hours' television a day in childhood, he said.

No link was found between television viewing and blood pressure. The associations remained...

...well-established risk factors for cardiovascular illness and death later in life," said Dr Hancox. "Our results suggest that excessive television viewing in young people is likely to have far-reaching consequences for adult health.

"We concur with the American Academy of Paediatrics that parents should limit children's viewing to one to two hours per day; in fact, data suggest that less than one hour a day would be even better."

He acknowledged...

23/3,K/7 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

0017118904 SUPPLIER NUMBER: 116790742 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Communicating health information and making the news: health reporters reveal the PR tactics that work.

Tanner, Andrea H.

Public Relations Quarterly, 49, 1, 24(4)

Spring, 2004

ISSN: 0033-3700 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2809 LINE COUNT: 00232

... technical information. Respondents also said it was important for practitioners to understand the deadline-oriented nature of television news.

This data suggests that in order for a story to make it to air, a health source or public relations...

...Without humanization, a health reporter knows she will not be able to relate the story to the television viewer, therefore she is less likely to spend time covering the story. In addition, with the personal and private nature of health and medical news, it...

23/3,K/8 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

13737497 SUPPLIER NUMBER: 76759471 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The Unpredictable Audience: An Exploratory Analysis of Forecasting Error for New Prime-Time Network Television Programs. (Statistical Data Included)

Napoli, Philip M.

Journal of Advertising, 30, 2, 53

Summer, 2001

DOCUMENT TYPE: Statistical Data Included ISSN: 0091-3367

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 5002 LINE COUNT: 00449

... tend to consume a greater diversity of program types and become more difficult to associate with particular program-type preferences. This pattern suggests that the viewing behavior of younger viewers presents less uncertainty and should be easier to predict than...

...Three programs?

Methodology

To investigate the hypotheses and research question outlined previously, data were collected on the predicted and actual shares of the total television viewing audience for new prime-time network television programs for the 1993-94 through 1997-98 broadcast seasons. Only the Big Four networks...

23/3,K/9 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

09725741 SUPPLIER NUMBER: 19717113 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
The market. (An Annual Report on the Home Video Market 1997) (Industry  
Overview)  
Video Business, v17, n29, pS4(4)  
July 14, 1997  
DOCUMENT TYPE: Industry Overview ISSN: 0279-571X LANGUAGE:  
English RECORD TYPE: Fulltext  
WORD COUNT: 1619 LINE COUNT: 00128

... third said they watched with another adult, presumably friends or  
dates.

Although men and women are equally likely to watch a movie with  
a spouse, significant other or other adults, spending time with the kids  
watching videos still falls to mothers more than fathers in most  
households. Within households with children, women are significantly more  
likely than men to watch videos with children. Women are also the  
primary renters of movies watched by families with children.

The sharply defined demographic patterns relating to video renting  
and buying behavior suggest that prerecorded video is as much a matter  
of lifestyle for Americans as it is simply one of several ways...

23/3,K/10 (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

05457944 SUPPLIER NUMBER: 11308084 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
On beyond demos. (Media Strategy)  
Cross, Alison  
Inside Media, p38(1)  
July 17, 1991  
ISSN: 1046-5316 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1192 LINE COUNT: 00097

... three groups, and understanding the idiosyncrasies within each  
group, enabled Hill, Holliday to put together a targeted media  
recommendation for Chico-San. An analysis of the media habits of these  
consumers indicates that each group has...

...fashion magazines and tend to listen to classic rock radio programming.  
The Diet-Conscious are also light TV viewers and are more likely  
to read magazines and listen to the radio. This group prefers  
entertainment programming and TV specials. It...

...soft contemporary radio stations.

The Health-Concerned are heaviest users of TV among the three groups.  
They watch news and early-morning programming. They read health and  
home-service magazines. They prefer easy listening radio.

The media recommendation that resulted from this motivationally  
oriented target analysis is dramatically different from one that would have  
resulted...

23/3,K/11 (Item 5 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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04895817 SUPPLIER NUMBER: 09809307 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Television station standards for acceptable advertising.  
Rotfeld, Herbert J.; Parsons, Patrick R.; Abernethy, Avery M.; Pavlik, John  
V.  
Journal of Consumer Affairs, v24, n2, p392(19)

Winter, 1990  
ISSN: 0022-0078 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 6915 LINE COUNT: 00580

... protection for certain audience groups, especially children, provides a major goal for the advertising clearance process for television stations.

Survey data suggest that advertising clearance standards were more rigorous for programming likely to be viewed by children, with primary concerns directed toward obscenity and violence, a finding also supported by written comments...

...phone interviews. One survey respondent wrote, "There is a special sensitivity to children's ads and family viewing times. An ad may be OK to air but only after 10 p.m. or never in kids...

23/3,K/12 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02831252 764999311

"No-You Can't Watch That": Parental Rules and Young Children's Media Use  
Vandewater, Elizabeth A; Park, Seoung-Eun; Huang, Xuan; Wartella, Ellen A  
American Behavioral Scientist v48n5 PP: 608-623 Jan 2005  
ISSN: 0002-7642 JRNL CODE: PAMB

...ABSTRACT: to rules of both types, whereas higher household income was related to having program rules. Parents with time rules reported their children watching less television, but parents with program rules reported their children watching more television. Parents with program rules were more likely to have positive attitudes toward television and more likely to be present when their children were viewing...

...of rules were more likely to see their children imitating positive behaviors from television, whereas parents with program rules were more likely to see their children imitating negative behaviors. Exploratory path models suggest that the processes by which television time rules and television program rules are related to young children's viewing differ in important ways...

23/3,K/13 (Item 1 from file: 813)  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0620263 DC017A  
AMA SUPPORTS BILL TO REDUCE TV VIOLENCE SEEN BY CHILDREN; NEW TELEVISION SETS TO HAVE TECHNOLOGY TO 'BLOCK OUT' VIOLENT PROGRAMMING

DATE: August 5, 1993 13:00 EDT WORD COUNT: 425

...will frequently do the exact opposite of what their parents want them to do," McAfee said. "Upon seeing the advisory appear on the TV screen the child might be even more likely to sit down and view the programming."

McAfee also suggested last week other measures to curb TV violence. They included Federal Trade Commission hearings to consider a violence rating...

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	84	(TV or television) and "program selection" and storag\$2 and (user\$2 OR viewing!) adj2 (habit or pattern) and @ad<"20010404"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:25
L2	8	1 and (predict\$5 near2 (preference\$3 or habit\$))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:32
L3	0	1 and probabilit\$3 same view\$3 same habit\$1 same select\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:33
L4	296	"collaborative filtering" and @ad<"20010404"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:36
L6	27	4 and probabilit\$3 same select\$3 and inference\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:38
L7	0	("previously viewed" or "previously view") and "search history" and (user\$2 OR viewing!) adj2 (habit or pattern) and @ad<"20010404"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:54
L8	0	Simulcast\$3 and (TV or television) and record\$3 near5 program\$2 same current\$2 and storag\$2 and (user\$2 OR viewing!) adj2 (habit or pattern) and @ad<"20010404"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:55
L9	58	("cable TV" or "cable television") and "program selection" and storag\$2 and (user\$2 OR viewing!) adj2 (habit or pattern) and @ad<"20010404"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:55
L10	84	(TV or television) and "program selection" and storag\$2 and (user\$2 OR viewing!) adj2 (habit or pattern) and @ad<"20010404"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:57
L11	11	((filter\$3 or sort\$3) same ("active attribute" or "active attributes" or (score\$ near (game\$1 or sport\$))) and event\$1 and active! and change\$1 and @ad<"20010404" ) and (database\$1 or storage\$1 or table\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:58

L12	17	(EPG! and "TV guide" and "program guide" and @ad<"20010404") and (user\$2 OR viewing!) adj2 (habit or pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:59
L13	6	9 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:59
L14	1	13 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 11:59
L15	58	9 and 10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 12:00
L16	0	9 and 11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 12:00
L17	4	(TV or television) and value\$2 and selection\$2 and storag\$2 and (user\$2 OR viewing!) adj2 (habit or pattern) and "instant replay" and @ad<"20010404"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/18 12:00

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 Open results in a new window

Results 1 - 20 of 200 Result page: 1 2 3 4 5 6 7 8 9 10 next Relevance scale

1 Posters: A study of methods for normalizing user ratings in collaborative filtering   
Rong Jin, Luo Si  
July 2004 **Proceedings of the 27th annual international conference on Research and development in information retrieval**  
Full text available:  pdf(168.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)  
The goal of collaborative filtering is to make recommendations for a test user by utilizing the rating information of users who share interests similar to the test user. Because ratings are determined not only by user interests but also the rating habits of users, it is important to normalize ratings of different users to the same scale. In this paper, we compare two different normalization strategies for user ratings, namely the Gaussian normalization method and the decoupling normalization met ...

**Keywords:** collaborative filtering, rating normalization

2 Item-based collaborative filtering recommendation algorithms   
Badrul Sarwar, George Karypis, Joseph Konstan, John Reidl  
April 2001 **Proceedings of the tenth international conference on World Wide Web**  
Full text available:  pdf(257.88 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 Collaborative Filtering: Diffusing information in organizational settings: learning from experience   
Dave Snowdon, Antonietta Grasso  
April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**  
Full text available:  pdf(315.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
Recommender systems selectively circulate information enriched with comments and feedback based on people's experience. These systems filter information in a semi-automatic and high-quality way in order to support a community during their work or leisure practices. However recommender systems are usually separate tools that require a degree of effort to be used, both when receiving information and to insert new feedback. In this paper we present our informal experiences with the use of multiple ...

**Keywords:** information sharing, large-screens, recommender systems, serendipity

4 Collaboration and group work: Enhancing digital libraries with TechLens+



Roberto Torres, Sean M. McNee, Mara Abel, Joseph A. Konstan, John Riedl  
June 2004

Full text available: [pdf\(248.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The number of research papers available is growing at a staggering rate. Researchers need tools to help them find the papers they should read among all the papers published each year. In this paper, we present and experiment with hybrid recommender algorithms that combine Collaborative Filtering and Content-based. Filtering to recommend research papers to users. Our hybrid algorithms combine the strengths of each filtering approach to address their individual weaknesses. We evaluated our algorit ...

**Keywords:** collaborative filtering, content-based filtering, digital libraries, hybrid recommender systems

5 Collaborative Filtering: Observed behavior and perceived value of authors in usenet newsgroups: bridging the gap



Andrew T. Fiore, Scott Lee Tiernan, Marc A. Smith

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**

Full text available: [pdf\(363.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe an evaluation of behavioral descriptors generated from an analysis of a large collection of Usenet newsgroup messages. The metrics describe aspects of newsgroup authors' behavior over time; such information can aid in filtering, sorting, and recommending content from public discussion spaces like newsgroups. To assess the value of a variety of these behavioral descriptors, we compared 22 participants' subjective evaluations of authors whose messages they read to behavio ...

**Keywords:** behavioral indicators, discussions, persistent conversations, social accounting, social cyberspaces

6 Architecture of the artifact-based collaboration system matrix



K. Jeffay, J. K. Lin, J. Menges, F. D Smith, J. B. Smith

December 1992 **Proceedings of the 1992 ACM conference on Computer-supported cooperative work**

Full text available: [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 The role of built-in knowledge in adaptive interface systems



Daniel Crow, Barbara Smith

February 1993 **Proceedings of the 1st international conference on Intelligent user interfaces**

Full text available: [pdf\(854.71 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** adaptive user interfaces, pattern recognition, task-oriented interfaces, user modeling, user variation

**8 Automatic recording agent for digital video server**

Atsuyoshi Nakamura, Naoki Abe, Hiroshi Matoba, Katsuhiro Ochiai

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**Full text available:  [pdf\(932.31 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose and evaluate the performance of a number of methods for automatic recording of TV programs for digital video servers, which estimate the user's preference over TV programs based on her/his past viewing behavior and automatically record a selected number of TV programs believed to be of interest to the user. Our methods combine the so-called content-based filtering and social (or collaborative) filtering methods and are based on a certain class of on-line learning algorithms known as ...

**9 Evaluating image filtering based techniques in media space applications**

Qiang Alex Zhao, John T. Stasko

November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**Full text available:  [pdf\(850.32 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** image filter, informal group awareness, media space, privacy, real-time groupware, video

**10 Introduction to collaborative visualization**

Greg Johnson, T. Todd Elvins

May 1998 **ACM SIGGRAPH Computer Graphics**, Volume 32 Issue 2Full text available:  [pdf\(331.70 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

To gain additional perspectives and expertise on data and information imaging topics, I will periodically solicit articles from researchers in the visualization community. Greg Johnson has graciously contributed this month's introduction to collaborative visualization. The subject is one that I feel is of growing importance and interest. Greg and I are interested in your views on this emerging technology and welcome your email.

**11 Supporting situated actions in high volume conversational data situations**

Christopher Lueg

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  [pdf\(1.10 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Usenet news, information filtering, situated actions, situated cognition

**12 Spectral analysis of data**

Yossi Azar, Amos Fiat, Anna Karlin, Frank McSherry, Jared Saia

July 2001 **Proceedings of the thirty-third annual ACM symposium on Theory of computing**Full text available:  [pdf\(260.34 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Experimental evidence suggests that spectral techniques are valuable for a wide range of applications. A partial list of such applications include (i) semantic analysis of documents

used to cluster documents into areas of interest, (ii) collaborative filtering --- the reconstruction of missing data items, and (iii) determining the relative importance of documents based on citation/link structure. Intuitive arguments can explain some of the phenomena that has been observed but little theoret ...

13 Computer-mediated communication in collaborative educational settings (report of the ITCSE '97 working group on CMC in collaborative educational settings) 

Ursula Wolz, Jacob Palme, Penny Anderson, Zhi Chen, James Dunne, Göran Karlsson, Atika Laribi, Sirkku Männikkö, Robert Spielvogel, Henry Walker

June 1997 **The supplemental proceedings of the conference on Integrating technology into computer science education: working group reports and supplemental proceedings**

Full text available:  pdf(109.30 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Computer-mediated communication in collaborative educational settings: report of the ITCSE '97 working group on CMC in collaborative educational settings 

Ursula Wolz, Jacob Palme, Penny Anderson, Zhi Chen, James Dunne, Göran Karlsson, Atika Laribi, Sirkku Männikkö, Robert Spielvogel, Henry Walker

October 1997 **ACM SIGCUE Outlook**, Volume 25 Issue 4

Full text available:  pdf(2.14 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In educational environments that stress collaboration, the use of computer-mediated communication (CMC) tools can be a source of support as well as a challenge. This paper begins by considering general educational and economic goals and how CMC can be helpful in attaining these goals. A taxonomy of tools for communication and collaboration in education is described. Many sides of the issue are considered, including the roles of teachers and students, problems that can arise and potential solutio ...

15 MultECommerce: a distributed architecture for collaborative shopping on the WWW 

Stefano Puglia, Robert Carter, Ravi Jain

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**

Full text available:  pdf(690.44 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** WWW engineering, component technologies, e-commerce APIs, e-commerce architectures, enterprise JavaBeans, shared navigation

16 Supporting personalization: Exploring the relationship between personal and public annotations 

Catherine C. Marshall, A. J. Bernheim Brush

June 2004

Full text available:  pdf(486.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today people typically read and annotate printed documents even if they are obtained from electronic sources like digital libraries. If there is a reason for them to share these personal annotations online, they must re-enter them. Given the advent of better computer support for reading and annotation, including tablet interfaces, will people ever share their personal digital ink annotations as is, or will they make substantial changes to them? What can we do to anticipate and support the transit ...

**Keywords:** annotation, annotation system design, collaboration, digital library use, education, online discussion, reading

**17** Creating a custom mass-production channel on the Internet

Greg Eloffson, William N. Robinson

March 1998 **Communications of the ACM**, Volume 41 Issue 3Full text available:  [pdf\(203.92 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18** Accepted Posters: A zero-input interface for leveraging group experience in web browsing

Taly Sharon, Henry Lieberman, Ted Selker

January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**Full text available:  [pdf\(255.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The experience of a trusted group of colleagues can help users improve the quality and focus of their browsing and searching activities. How could a system provide such help, when and where the users need it, without disrupting their normal work activities? This paper describes Context-Aware Proxy based System (CAPS), an agent that recommends pages and annotates links to reveal their relative popularity among the users' colleagues, matched with their automatically computed interest profiles. A We ...

**Keywords:** CSCW, collaborative filtering, knowledge management, recommender system, social networks, user interface

**19** A recipe based on-line food store

Martin Svensson, Jarmo Laaksolahti, Kristina Höök, Annika Waern

January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces**Full text available:  [pdf\(738.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent research in the area of information retrieval hypothesizes that people benefit from social clues, so called social navigation, when they try to navigate information spaces [7]. We have designed an on-line grocery store building upon those ideas manifested in several different ways. The most central feature is that the system uses a combination of content-based and collaborative filtering as the basis for recipe recommendations. This filtering process can in turn be controlled by edit ...

**Keywords:** collaborative filtering, content-based filtering, on-line shopping, recommender system, social navigation, user groups

**20** Where did you put it? Issues in the design and use of a group memory

Lucy M. Berlin, Robin Jeffries, Vicki L. O'Day, Andreas Paepcke, Cathleen Wharton

May 1993 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Collaborating teams of knowledge workers need a common repository in which to share information gathered by individuals or developed by the team. This is difficult to achieve in practice, because individual information access strategies break down with group information—people can generally find things that are on their own messy desks and file systems, but not on other people's. The design challenge in a group memory is thus to enable low-effort information ...

**Keywords:** collaborative work, group conventions, group memory, information search and retrieval, information sharing

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1 The personal electronic program guide—towards the pre-selection of individual TV programs

Michael Ehrmantraut, Theo Härdter, Hartmut Wittig, Ralf Steinmetz

November 1996 **Proceedings of the fifth international conference on Information and knowledge management**Full text available:  pdf(923.87 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

2 Is it live or is it Memorex?

Tory Sawyer, Randy Anderson, Gary McCuaig

September 1986 **Proceedings of the 14th annual ACM SIGUCCS conference on User services: setting the direction**Full text available:  pdf(2.60 MB) Additional Information: [full citation](#), [index terms](#)

3 Using data mining to profile TV viewers

William E. Spangler, Mordechai Gal-Or, Jerrold H. May

December 2003 **Communications of the ACM**, Volume 46 Issue 12Full text available:  pdf(109.63 KB)  html(29.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mining thousands of viewing choices and millions of patterns, advertisers and TV networks identify household characteristics, tastes, and desires to create and deliver custom targeted advertising.

4 Computer applications in a cable television environment

Howard Buckholtz, Eileen Buckholtz

August 1973 **Proceedings of the annual conference**Full text available:  pdf(649.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The intention of this paper is to survey the field of cable television and computer applications.

5

Automatic recording agent for digital video server

Atsuyoshi Nakamura, Naoki Abe, Hiroshi Matoba, Katsuhiro Ochiai  
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available:  [pdf\(932.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose and evaluate the performance of a number of methods for automatic recording of TV programs for digital video servers, which estimate the user's preference over TV programs based on her/his past viewing behavior and automatically record a selected number of TV programs believed to be of interest to the user. Our methods combine the so-called content-based filtering and social (or collaborative) filtering methods and are based on a certain class of on-line learning algorithms known as ...

6 Cooking with Linux: watching the community network 

Marcel Gagné  
September 2003 **Linux Journal**, Volume 2003 Issue 113

Full text available:  [html\(19.85 KB\)](#) Additional Information: [full citation](#)

7 Pen computing: a technology overview and a vision 

André Meyer  
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available:  [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

8 Double agent—presentation and filtering agents for a digital television recording system 

Peter Meuleman, Anita Heister, Han Kohar, Douglas Tedd  
April 1998 **CHI 98 conference summary on Human factors in computing systems**

Full text available:  [pdf\(265.01 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** agents, anthropomorphism, content filtering, television user interfaces, user profiling

9 Long-term movie popularity models in video-on-demand systems: or the life of an on-demand movie 

Carsten Griwodz, Michael Bär, Lars C. Wolf  
November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 The fuzzy felt ethnography—understanding the programming patterns of domestic appliances 

Jennifer A. Rode, Eleanor F. Toye, Alan F. Blackwell  
July 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 3-4

Full text available:  pdf(1.84 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

In this paper, we discuss domestic appliance use based on an ethnographic study of nine households. Specifically, we look at which domestic appliances users choose to "program", and break them into two categories for analysis; those that allow users to program actions for the future and those that allow for macro creation to make repeated tasks easier. We also look at domestic programming habits based on gender.

**Keywords:** Domestic appliances, Ethnography, Gender, Programming

**11 Residential user characterisation: The networked home as a user-centric multimedia system** 

Ankur Mani, Hari Sundaram, David Birchfield, Gang Qian

October 2004 **Proceedings of the 2004 ACM workshop on Next-generation residential broadband challenges**

Full text available:  pdf(1.42 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This is a position paper that frames a networked home as a situated, user-centric multimedia system. The problem is important for two reasons - (a) the emergence of high speed networked connections alter media consumption and interaction practices and (b) ordinary consumers currently communicate everyday experiences through limited means (e.g. e-mail attachments). We need new mechanisms for networked creation and consumption of media, as well as new interaction paradigms that will allow us to ...

**Keywords:** communication, context models, networked home, situated systems

**12 Session 2: streaming: Personalized advertisement-duration control for streaming delivery** 

Takashi Oshiba, Yuichi Koike, Masahiro Tabuchi, Tomonari Kamba

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available:  pdf(787.42 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes the development of a streaming advertisement delivery system that controls the insertion of streaming advertisements into streaming content. Conventional personalization techniques lack a time-control function for advertisement insertion, so the advertisement exposure for each user access can become excessive, much to the annoyance of viewers. This could devalue streaming content by making it less attractive. In our technique, advertisement insertion control is based on the hi ...

**Keywords:** advertisement delivery, internet streaming, personalization

**13 Electronic commerce: a half-empty glass?** 

Sasa Dekleva

June 2000 **Communications of the AIS**

Full text available:  pdf(343.49 KB)

Additional Information: [full citation](#), [references](#)

**14 QOPSLA onward! track: No name: just notes on software reuse** 

Robert Biddle, Angela Martin, James Noble

December 2003 **ACM SIGPLAN Notices**, Volume 38 Issue 12

Full text available:  pdf(2.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

**Keywords:** components, object-oriented programming, software reuse

**15** Onward papers: No name: just notes on software reuse



Robert Biddle, Angela Martin, James Noble

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available: [pdf \(1.81 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

**Keywords:** components, object-oriented programming, software reuse

**16** Democracy & information processing



Edwin B. Parker

December 1974 **ACM SIGCAS Computers and Society**, Volume 5 Issue 4

Full text available: [pdf \(778.19 KB\)](#) Additional Information: [full citation](#)

**17** Technology to help people find information: SmartSkip: consumer level browsing and skipping of digital video content



Steven M. Drucker, Asta Glatzer, Steven De Mar, Curtis Wong

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**

Full text available: [pdf \(573.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we describe an interface for browsing and skipping digital video content in a consumer setting; that is, sitting and watching television from a couch using a standard remote control. We compare this interface with two other interfaces that are in common use today and found that subjective satisfaction was statistically better with the new interface. Performance metrics however, like time to task completion and number of clicks were worse.

**Keywords:** DVR, PVR, browsing, digital video, skipping, television, user interfaces, user studies

**18** Computer science curriculum for high school students



R. M. Aiken, C. E. Hughes, J. M. Moshell

February 1980 **ACM SIGCSE Bulletin, Proceedings of the eleventh SIGCSE technical symposium on Computer science education**, Volume 12 Issue 1

Full text available:  [pdf\(639.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a current project to design an Introductory Computer Science Course for High School students. Problems concerning the choice of hardware, the selection of software, programming language(s) and the overall design of the curriculum are discussed. In addition, some previous related research is summarized and a plan for future activities is outlined.

**19 Automatic construction of personalized TV news programs** 

Bernard Merialdo, Kyung Tak Lee, Dario Luparello, Jeremie Roudaire

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Full text available:  [pdf\(1.62 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we study the automatic construction of personalized TV News programs, where we want to build a program with predefined duration and maximum content value for a specific user. We combine video indexing techniques to parse TV News recordings into stories, and information filtering techniques to select stories which are most adequate given the user profile. We formalize the selection process as an optimization problem, and we study how to take into account duration in the select ...

**Keywords:** information filtering, multimedia indexing, personalization, user profile, video summary

**20 Robots, productivity and quality** 

Charles A. Rosen

August 1972 **Proceedings of the ACM annual conference - Volume 1**

Full text available:  [pdf\(1.84 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is a growing national need to increase the real productivity of our society, wherein "productivity" is redefined to include such major factors as the quality of life of workers and the quality of products, consistent with the desires and expectations of the general public. This paper proposed the development of automation technology designed to increase quality, in all its aspects, at an acceptable cost to society. The proposed program is divided into two phases ...

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1 A selective location update strategy for PCS users  
Sanjoy K. Sen, Amiya Bhattacharya, Sajal K. Das  
October 1999 **Wireless Networks**, Volume 5 Issue 5

Full text available:  pdf(219.12 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 Subset selection procedures with special reference to the analysis of two-way layout:  
Application to motor-vehicle fatality data  
Shanti S. Gupta, Jason C. Hsu  
December 1977 **Proceedings of the 9th conference on Winter simulation - Volume 1**

Full text available:  pdf(385.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, the origin of selection and ranking problems is discussed. Then the two basic approaches to the selection problem - the indifference zone approach and the subset selection approach - are reviewed briefly. As an application, Gupta's subset selection procedure is applied to motor-vehicle fatality data which fits into a two-way lay-out.

3 Computing curricula 2001  
September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  pdf(613.63 KB)  html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 Fast detection of communication patterns in distributed executions  
Thomas Kunz, Michiel F. H. Seuren  
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**5** [ε-mdps: learning in varying environments](#)

István Szita, Bálint Takács, András Lörincz

March 2003 **The Journal of Machine Learning Research**, Volume 3Full text available: [pdf\(630.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper  $\epsilon$ -MDP-models are introduced and convergence theorems are proven using the generalized MDP framework of Szepesvari and Littman. Using this model family, we show that Q-learning is capable of finding near-optimal policies in varying environments. The potential of this new family of MDP models is illustrated via a reinforcement learning algorithm called *event-learning* which separates the optimization of decision making from the controller. We show that event-learning au ...

**Keywords:**  $\epsilon$ -MDP, MDP, SARSA, SDS controller, convergence, event-learning, generalized MDP, reinforcement learning

**6** [Cost/benefit based adaptive dialog: case study using empirical medical practice norms and intelligent split menus](#)

Jim Warren

January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface**, Volume 23 Issue 5Full text available: [pdf\(843.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)  
 [Publisher Site](#)

The notion of an adaptive user interface, one that accommodates user needs based on knowledge of the task at hand, is compelling but difficult to make practical. This paper examines models of the utility (as balancing of cost and benefit) in the initiation of task-specific dialog based on conditional probability of user goals in context. Illustrations in this paper are based on an empirical model of General Practice (GP) medicine as derived from a large database of GP/patient encounters. Applica ...

**7** [Long-term movie popularity models in video-on-demand systems: or the life of an on-demand movie](#)

Carsten Griwodz, Michael Bär, Lars C. Wolf

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**Full text available: [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**8** [Information systems outsourcing: a survey and analysis of the literature](#)

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4Full text available: [pdf\(1.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

**Keywords:** determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

**9 Simple, state-based approaches to program-based anomaly detection**

C. C. Michael, Anup Ghosh

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5

Issue 3

Full text available:  [pdf\(459.57 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article describes variants of two state-based intrusion detection algorithms from Michael and Ghosh [2000] and Ghosh et al. [2000], and gives experimental results on their performance. The algorithms detect anomalies in execution audit data. One is a simply constructed finite-state machine, and the other two monitor statistical deviations from normal program behavior. The performance of these algorithms is evaluated as a function of the amount of available training data, and they are compar ...

**Keywords:** Anomaly detection, finite automata, information system security, intrusion detection, machine learning

**10 Modeling PCS networks under general call holding time and cell residence time distributions**

Yuguang Fang, Imrich Chlamtac, Yi-Bing Lin

December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6Full text available:  [pdf\(568.70 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** PCS, billing rate planning, call blocking, call holding time, call termination, cell residence, handoff

**11 Revisitation patterns in World Wide Web navigation**

Linda Tauscher, Saul Greenberg

March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  [pdf\(984.35 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** WWW, history mechanisms, hypertext, navigation, web

**12 Personalizing web sites for mobile users**

Corin R. Anderson, Pedro Domingos, Daniel S. Weld

April 2001 **Proceedings of the tenth international conference on World Wide Web**Full text available:  [pdf\(385.99 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**13 Keystroke level analysis of email message organization**

Olle Bälter

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  [pdf\(308.14 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Organization of email messages takes an increasing amount of time for many email users. Research has demonstrated that users develop very different strategies to handle this

organization. In this paper, the relationship between the different organization strategies and the time necessary to use a certain strategy is illustrated by a mathematical model based on keystroke-level analysis. The model estimates time usage for archiving and retrieving email messages for individual users. Besides exp ...

**Keywords:** email, model, organisation of messages, user

**14 Behavioral Aspects of Text Editors**

David W. Embley, George Nagy

January 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 1

Full text available:  [pdf\(3.44 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#).



**15 Automatic recording agent for digital video server**

Atsuyoshi Nakamura, Naoki Abe, Hiroshi Matoba, Katsuhiro Ochiai

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available:  [pdf\(932.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#).

We propose and evaluate the performance of a number of methods for automatic recording of TV programs for digital video servers, which estimate the user's preference over TV programs based on her/his past viewing behavior and automatically record a selected number of TV programs believed to be of interest to the user. Our methods combine the so-called content-based filtering and social (or collaborative) filtering methods and are based on a certain class of on-line learning algorithms known as ...



**16 The winter simulation conference: perspectives of the founding fathers**

Michel Araten, Harold G. Hixson, Austin C. Hoggatt, Philip J. Kiviat, Michael F. Morris, Arnold Ockene, Julian Reitman, Joseph M. Sussman, James R. Wilson

December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available:  [pdf\(2.83 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#).



**17 A new location update strategy for cellular networks and its implementation using a genetic algorithm**

Sajal K. Das, Sanjoy K. Sen

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  [pdf\(1.60 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#).



**18 Seven habits of highly successful input modelers**

Larry Leemis

December 1997 **Proceedings of the 29th conference on Winter simulation**

Full text available:  [pdf\(661.21 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#).



**19 Principled disambiguation: discriminating adjective senses with modified nouns**

John S. Justeson, Slava M. Katz

March 1995 **Computational Linguistics**, Volume 21 Issue 1



Full text available:  [pdf\(2.03 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#)  
[Publisher Site](#)

Recent corpus-based work on word sense disambiguation explores the application of statistical pattern recognition procedures to lexical co-occurrence data from very large text databases. In this paper we argue for a linguistically principled approach to disambiguation, in which relevant contextual clues are narrowly defined, in syntactic and semantic terms, and in which only highly reliable clues are exploited. Statistical methods play a definite role in this work, helping to organize and analyze ...

**20 The vocabulary problem in human-system communication** 

G. W. Furnas, T. K. Landauer, L. M. Gomez, S. T. Dumais

November 1987 **Communications of the ACM**, Volume 30 Issue 11

Full text available:  [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In almost all computer applications, users must enter correct words for the desired objects or actions. For success without extensive training, or in first-tries for new targets, the system must recognize terms that will be chosen spontaneously. We studied spontaneous word choice for objects in five application-related domains, and found the variability to be surprisingly large. In every case two people favored the same term with probability <0.20. Simulations show how this fundamental property ...

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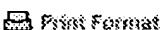
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**1 Selective pressure in evolutionary algorithms: a characterization of selection mechanisms**

*Back, T.;*

Evolutionary Computation, 1994. IEEE World Congress on Computational Intelligence., Proceedings of the First IEEE Conference on, 27-29 June 1994  
Pages:57 - 62 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(584 KB\)\]](#) **IEEE CNF**

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**2 Path selection methods for localized quality of service routing**

*Xin Yuan; Saifee, A.;*

Computer Communications and Networks, 2001. Proceedings. Tenth International Conference on, 15-17 Oct. 2001  
Pages:102 - 107

[\[Abstract\]](#) [\[PDF Full-Text \(120 KB\)\]](#) **IEEE CNF**

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**3 Optimal scheduling system with multiple status selection rules**

*Sasai, T.; Ikkai, Y.; Ohkawa, T.; Komoda, N.;*

Industrial Electronics, Control and Instrumentation, 1994. IECON '94., 20th International Conference on, Volume: 2, 5-9 Sept. 1994  
Pages:1123 - 1128 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(492 KB\)\]](#) **IEEE CNF**

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**4 Using common random numbers for indifference-zone selection**

*Chen, E.J.;*

Simulation Conference, 2001. Proceedings of the Winter, Volume: 1, 9-12 Dec 2001  
Pages:408 - 416 vol.1

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[\[Abstract\]](#) [\[PDF Full-Text \(594 KB\)\]](#) [IEEE CNF](#)

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**5 New results on selection diversity**

*Neasmith, E.A.; Beaulieu, N.C.;*

Communications, IEEE Transactions on , Volume: 46 , Issue: 5 , May 1998

Pages:695 - 704

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[\[Abstract\]](#) [\[PDF Full-Text \(428 KB\)\]](#) [IEEE JNL](#)

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**6 Orthogonal forward selection and backward elimination algorithms for feature subset selection**

*Mao, K.Z.;*

Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 34 , Issue: 1 , Feb. 2004

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[\[Abstract\]](#) [\[PDF Full-Text \(200 KB\)\]](#) [IEEE JNL](#)

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**7 Toward transparent selective sequential consistency in distributed shared memory systems**

*Chengzheng Sun; Zhiyi Huang; Wanju lei; Saitar, A.;*

Distributed Computing Systems, 1998. Proceedings. 18th International Conference on , 26-29 May 1998

Pages:572 - 581

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**8 Data and model-driven selection using closely-spaced parallel-line groups**

*Syeda-Mahmood, T.F.;*

Computer Vision and Pattern Recognition, 1994. Proceedings CVPR '94., 1994 Computer Society Conference on , 21-23 June 1994

Pages:881 - 886

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**9 Group selection and its application to constrained evolutionary optimization**

*Ming Chang; Ohkura, K.; Ueda, K.; Sugiyama, M.;*

Evolutionary Computation, 2003. CEC '03. The 2003 Congress on , Volume: 1 , 12 Dec. 2003

Pages:684 - 691 Vol.1

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[\[Abstract\]](#) [\[PDF Full-Text \(1683 KB\)\]](#) [IEEE CNF](#)

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**10 Optimum selection diversity for BPSK signals in Rayleigh fading channels**

*Young Gil Kim; Sang Wu Kim;*

Communications, IEEE Transactions on , Volume: 49 , Issue: 10 , Oct. 2001

Pages:1715 - 1718

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[\[Abstract\]](#) [\[PDF Full-Text \(128 KB\)\]](#) [IEEE JNL](#)

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**11 Algorithm selection: a quantitative optimization-intensive approach**  
*Potkonjak, M.; Rabaey, J.M.;*  
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on , Volume: 18 , Issue: 5 , May 1999  
Pages:524 - 532

[\[Abstract\]](#) [\[PDF Full-Text \(144 KB\)\]](#) [IEEE JNL](#)

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**12 Critical process drive selection for a cement plant**  
*Paul, B.N.; Schaad, J.L.;*  
Cement Industry Technical Conference, 2003. Conference Record. IEEE-IAS/P 2003 , 4-9 May 2003  
Pages:21 - 35

[\[Abstract\]](#) [\[PDF Full-Text \(1036 KB\)\]](#) [IEEE CNF](#)

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**13 Effects of selection schemes in genetic programming for time series prediction**  
*Jung-Jib Kim; Byoung-Tak Zhang;*  
Evolutionary Computation, 1999. CEC 99. Proceedings of the 1999 Congress on , Volume: 1 , 6-9 July 1999  
Pages: 258 Vol. 1

[\[Abstract\]](#) [\[PDF Full-Text \(400 KB\)\]](#) [IEEE CNF](#)

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**14 MIMO antenna subset selection with space-time coding**  
*Gore, D.A.; Paulraj, A.J.;*  
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] , Volume: 50 , Issue: 10 , Oct. 2002  
Pages:2580 - 2588

[\[Abstract\]](#) [\[PDF Full-Text \(389 KB\)\]](#) [IEEE JNL](#)

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**15 Empirical studies of a safe regression test selection technique**  
*Rothermel, G.; Harrold, M.J.;*  
Software Engineering, IEEE Transactions on , Volume: 24 , Issue: 6 , June 1998  
Pages:401 - 419

[\[Abstract\]](#) [\[PDF Full-Text \(556 KB\)\]](#) [IEEE JNL](#)

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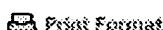
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**1 The television village**  
*Ellis, R.J.G.;*  
Broadcasting Convention, 1990. IBC 1990., International , 21-25 Sep 1990  
Pages:331 - 335

[\[Abstract\]](#) [\[PDF Full-Text \(416 KB\)\]](#) **IEE CNF**

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**2 Development and features of a TV navigation system**  
*Isobe, T.; Fujiwara, M.; Kaneta, H.; Uratani, N.; Morita, T.;*  
Consumer Electronics, IEEE Transactions on , Volume: 49 , Issue: 4 , Nov. 20  
Pages:1035 - 1042

[\[Abstract\]](#) [\[PDF Full-Text \(908 KB\)\]](#) **IEEE JNL**

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**3 Inferring identity from user behaviour**  
*Carey, M.J.; Tattersall, G.D.; Lloyd-Thomas, H.; Russell, M.J.;*  
Vision, Image and Signal Processing, IEE Proceedings- , Volume: 150 , Issue: 6 , 15 Dec. 2003  
Pages:383 - 388

[\[Abstract\]](#) [\[PDF Full-Text \(310 KB\)\]](#) **IEE JNL**

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**4 Development and features of a TV navigation system**  
*Isobe, T.; Fujiwara, M.; Kaneta, H.; Uratani, N.; Morita, T.;*  
Consumer Electronics, 2003. ICCE. 2003 IEEE International Conference on , 1 June 2003  
Pages:82 - 83

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**5 A per-object-granularity tracking mechanism for interactive TV viewership estimation and program rating**

*Liang-Jie Zhang; Lurng-Kuo Liu; Dong Xie; Lipscomb, J.S.;*

Multimedia Software Engineering, 2002. Proceedings. Fourth International Symposium on , 11-13 Dec. 2002

Pages:98 - 105

[\[Abstract\]](#) [\[PDF Full-Text \(573 KB\)\]](#) [IEEE CNF](#)

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**6 Trends in Cable TV**

*Ports, D.;*

Communications, IEEE Transactions on [legacy, pre - 1988] , Volume: 23 , Issue: 1 , Jan 1975

Pages:92 - 96

[\[Abstract\]](#) [\[PDF Full-Text \(520 KB\)\]](#) [IEEE JNL](#)

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**7 TV gets personal [personal video recorders]**

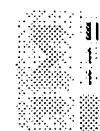
*Oliphant, A.; Scudamore, B.;*

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*Oka, T.; Morikawa, H.; Aoyama, T.;*  
Applications and the Internet Workshops, 2004. SAINT 2004 Workshops. 2004 International Symposium on , 26-30 Jan. 2004  
Pages:575 - 581

[\[Abstract\]](#) [\[PDF Full-Text \(262 KB\)\]](#) **IEEE CNF****2 Ganging up on information overload**

*Borchers, A.; Herlocker, J.; Konstan, J.; Reidl, J.;*  
Computer , Volume: 31 , Issue: 4 , April 1998  
Pages:106 - 108

[\[Abstract\]](#) [\[PDF Full-Text \(228 KB\)\]](#) **IEEE JNL****3 Amazon.com recommendations: item-to-item collaborative filtering**

*Linden, G.; Smith, B.; York, J.;*  
Internet Computing, IEEE , Volume: 7 , Issue: 1 , Jan.-Feb. 2003  
Pages:76 - 80

[\[Abstract\]](#) [\[PDF Full-Text \(359 KB\)\]](#) **IEEE JNL****4 Active fuzzy clustering for collaborative filtering**

*Srinivasa, N.; Medasani, S.;*  
Fuzzy Systems, 2004. Proceedings. 2004 IEEE International Conference on , Volume: 3 , 25-29 July 2004  
Pages:1697 - 1702 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(972 KB\)\]](#) **IEEE CNF**

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**5 Finding users' latent interests for recommendation by learning class systems**

*Terano, T.; Murakami, E.;*

Knowledge-Based Intelligent Engineering Systems and Allied Technologies, 2000 Proceedings. Fourth International Conference on , Volume: 2 , 30 Aug.-1 Sept 2000

Pages:651 - 654 vol.2

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**6 A recommendation algorithm using multi-level association rules**

*Choonho Kim; Juntae Kim;*

Web Intelligence, 2003. WI 2003. Proceedings. IEEE/WIC International Conference , 13-17 Oct. 2003

Pages:524 - 527

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**7 Cellular phone ringing tone recommendation system based on collaborative filtering method**

*Kostov, V.; Naito, E.; Ozawa, J.;*

Computational Intelligence in Robotics and Automation, 2003. Proceedings. 2003 IEEE International Symposium on , Volume: 1 , 16-20 July 2003

Pages:378 - 383 vol.1

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**8 A logical framework for fuzzy collaborative filtering**

*Aguzzoli, S.; Avesani, P.; Gerla, B.;*

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Pages:1043 - 1046 vol.3

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**9 Feature weighting and instance selection for collaborative filtering**

*Kai Yu; Zhong Wen; Xiaowei Xu; Ester, M.;*

Database and Expert Systems Applications, 2001. Proceedings. 12th International Workshop on , 3-7 Sept. 2001

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**10 Flycasting: using collaborative filtering to generate a playlist for on radio**

*Hauver, D.B.; French, J.C.;*

Web Delivering of Music, 2001. Proceedings. First International Conference on 24 Nov. 2001

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**11 Probabilistic memory-based collaborative filtering**

*Kai Yu; Schwaighofer, A.; Tresp, V.; Xiaowei Xu; Kriegel, H.-P.;*  
Knowledge and Data Engineering, IEEE Transactions on , Volume: 16 , Issue: 1 , Jan. 2004  
Pages:56 - 69

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**12 Collaborative filtering with privacy**

*Canny, J.;*  
Security and Privacy, 2002. Proceedings. 2002 IEEE Symposium on , 2002  
Pages:45 - 57

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**13 Using category-based collaborative filtering in the Active WebMuse**

*Kohrs, A.; Merialdo, B.;*  
Multimedia and Expo, 2000. ICME 2000. 2000 IEEE International Conference on , Volume: 1 , 30 July-2 Aug. 2000  
Pages:351 - 354 vol.1

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**14 Improvement of naive Bayes collaborative filtering using interval estimation**

*Robles, V.; Larranaga, P.; Menasalvas, E.; Perez, M.S.; Herves, V.;*  
Web Intelligence, 2003. WI 2003. Proceedings. IEEE/WIC International Conference on , 13-17 Oct. 2003  
Pages:168 - 174

[\[Abstract\]](#) [\[PDF Full-Text \(258 KB\)\]](#) [IEEE CNF](#)

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**15 Research and design of an efficient collaborative filtering predicate algorithm**

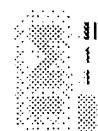
*Qilin Li; Mingtian Zhou;*  
Parallel and Distributed Computing, Applications and Technologies, 2003. PDCAT'2003. Proceedings of the Fourth International Conference on , 27-29 A 2003  
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... the link or data, and people viewing the link ... And of course, in my collaborative filtering version of ... encourages better research and data compilation habits. ...

[soc.genealogy.medieval](#) - Mar 23 2001, 10:40 pm by Don Stone - 22 messages - 13 authors

[Replay vs TiVo](#)

... the programs you like, I do not consider my viewing habits to be ... near where it should

be(complex query + reg expression matching + **collaborative filtering**)... ...  
[alt.video.ptv.replaytv](#) - Jun 24 2001, 12:18 am by George MacDonald - 74 messages - 17 authors

[Trade in My Panasonic Showstopper for Tivo??](#)

... How can a TiVo figure out that my roommates viewing habits are totally different

than mine? ... Give me true **collaborative filtering** and I might be interested. ...  
[alt.video.ptv.tivo](#) - May 21 2002, 5:21 pm by George MacDonald - 187 messages - 27 authors

[Are you private ? ... definitely you are not ...](#)

... Using a technique called **collaborative filtering**, they can discern ... your lifestyle

from your browsing habits and likewise ... the content you are viewing and how ...

[alt.privacy](#) - May 22 2000, 2:10 pm by Anonymous - 4 messages - 2 authors

[nettime: interview with Hartmut Winkler](#)

... the two-dimensional output merely aims at the users' viewing-habits. ... moderated

mailinglist for net criticism, \* **collaborative text filtering** and cultural ...

[alt.nettime](#) - Jan 19 1997, 1:21 am by Geert Lovink - 1 message - 1 author

[Big Brother is Watching](#)

... select appropriate ads for your viewing according to ... the buying and gambling habits

of 6 ... offering what they call "collaborative filtering" programs (implying ...  
[alt.prophecies.nostradamus](#) - Dec 5 2001, 1:30 pm by

DaarkS...@Nostracrapus.com - 2 messages - 2 authors

[Fwd: IP: Internet Pioneers Panel Discusses Challenges for Future ...](#)

... Instead of viewing the user as customers or as victims of ... is a moderated mailing

list for net criticism, # **collaborative text filtering** and cultural ...

[umich.interesting.people](#) - Sep 20 1999, 3:12 pm by Bernard A. Galler - 1 message - 1 author

[\*\*<nettime> Infobody Subpropaganda\*\*](#)

... in the reports on psychokinesis, telepathy and remote viewing. ... closed moderated

mailinglist for net criticism, # collaborative text filtering and cultural ...

[alt.nettime](#) - May 16 1997, 11:46 am by Konrad Becker - 1 message - 1 author

[\*\*OT Media Jam Issue #4 \(long\)\*\*](#)

... These worn out speaking **habits** are the true ... And we, the viewing public, appear to

have gleefully ... on our personal profiles and **collaborative filtering**), I have ...

[alt.sports.basketball.nba.la-lakers](#) - Oct 1 2003, 7:04 am by Dave Zero - 2 messages - 1 author

[\*\*UCSD Job Bulletin\(Oct-23-1996\)\*\*](#)

... care and discharge, maintain **collaborative** relationships with ... clinical utility of the viewing modules based on ... Experience preparing and **filtering** dilutents for ...

[misc.jobs.offered](#) - Oct 23 1996, 6:23 pm by UCSD\_Job\_Bulletin@Ucsd.EDU

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### Database site ready for comments

... the link or data, and people viewing the link ... And of course, in my **collaborative filtering** version of ... encourages better research and data compilation **habits**. ...

[soc.genealogy.medieval](#) - Mar 23 2001, 10:40 pm by Don Stone - 22 messages - 13 authors

### Replay vs TiVo

... the programs you like, I do not consider my **viewing habits** to be ... near where it should

be(complex query + reg expression matching + **collaborative filtering**)... ...  
[alt.video.ptv.replaytv](#) - Jun 24 2001, 12:18 am by George MacDonald - 74 messages - 17 authors

### Trade in My Panasonic Showstopper for Tivo??

... How can a TiVo figure out that my roommates **viewing habits** are totally different

than mine? ... Give me true **collaborative filtering** and I might be interested. ...

[alt.video.ptv.tivo](#) - May 21 2002, 5:21 pm by George MacDonald - 187 messages - 27 authors

### Are you private ? ... definitely you are not ...

... Using a technique called **collaborative filtering**, they can discern ... your lifestyle

from your browsing **habits** and likewise ... the content you are viewing and how ...

[alt.privacy](#) - May 22 2000, 2:10 pm by Anonymous - 4 messages - 2 authors

### nettime: interview with Hartmut Winkler

... the two-dimensional output merely aims at the users' **viewing-habits**. ... moderated

mailinglist for net criticism, \* **collaborative text filtering** and cultural ...

[alt.nettime](#) - Jan 19 1997, 1:21 am by Geert Lovink - 1 message - 1 author

### Big Brother is Watching

... select appropriate ads for your viewing according to ... the buying and **gambling habits**

of 6 ... offering what they call "**collaborative filtering**" programs (implying ...  
[alt.prophecies.nostradamus](#) - Dec 5 2001, 1:30 pm by

DaarkS...@Nostracrapus.com - 2 messages - 2 authors

### Fwd: IP: Internet Pioneers Panel Discusses Challenges for Future ...

... Instead of viewing the user as customers or as victims of ... is a moderated mailing

list for net criticism, # **collaborative text filtering** and cultural ...

umich.interesting.people - Sep 20 1999, 3:12 pm by Bernard A. Galler - 1 message - 1 author

<nettime> Infobody Subpropaganda

... in the reports on psychokinesis, telepathy and remote viewing. ... closed moderated

mailinglist for net criticism, # collaborative text filtering and cultural ...

alt.nettime - May 16 1997, 11:46 am by Konrad Becker - 1 message - 1 author

OT Media Jam Issue #4 (long)

... These worn out speaking **habits** are the true ... And we, the viewing public, appear to

have gleefully ... on our personal profiles and **collaborative filtering**), I have ...

alt.sports.basketball.nba.la-lakers - Oct 1 2003, 7:04 am by Dave Zero - 2 messages - 1 author

UCSD Job Bulletin(Oct-23-1996)

... care and discharge, maintain **collaborative** relationships with ... clinical utility of the viewing modules based on ... Experience preparing and **filtering** dilutents for ...

misc.jobs.offered - Oct 23 1996, 6:23 pm by UCSD\_Job\_Bulletin@Ucsd.EDU

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How objective is Objectivism?

... I agree with your conclusion that the **selection** of X ... to know with certainty or even  
**probability** that X ... point, I better consider changing my TV **viewing habits**. ...  
[humanities.philosophy.objectivism](#) - Feb 23 1998, 9:29 pm by Ken Gardner - 403 messages - 41 authors

The New Evolutionary Human Species

... species of humanity will be "remote **viewing**" on a ... selective laws of  
**probability**  
 (but divine **probability**) a spiritual ... Because past **habits** have kept that 12%  
 DNA ...  
[talk.religion.newage](#) - Oct 24 2002, 5:47 pm by Jeremy Jae - 5 messages - 4 authors

Mathematical Refutation of Creationism

... There is, also, I think, some **probability** in the view ... Perhaps the correct way of  
**viewing** the whole subject, would ... to me by Mr Blyth, on the **habits**, voice, and ...  
[talk.origins](#) - Feb 17 2002, 10:55 pm by Cyde Weys - 2 messages - 2 authors

Synthetic Telepathy: Remote Viewing & The ESP of Espionage

... carrying psi genes, as in all **probability** they were ... mental software (memes) to run  
 remote-viewing programmes to ... Simple new **habits** and software, that people can ...  
[alt.alien.visitors](#) - Aug 13 2004, 12:30 am by bolabola - 2 messages - 2 authors

Re-Post of Dr Suter Article

... to overturn the arbitrary **selection** of weapons ... need to reload The shooter's  
**probability**  
 of hitting ... may exercise control over their children's **viewing habits**. ...  
[talk.politics.guns](#) - Dec 22 1992, 5:01 am by Christopher J. Crobaugh - 1 message - 1 author

Dr. Edgar Suter article

... to overturn the arbitrary **selection** of weapons ... need to reload The shooter's  
**probability**  
 of hitting ... may exercise control over their children's **viewing habits**. ...  
[talk.politics.guns](#) - Dec 13 1992, 12:11 pm by Christopher J. Crobaugh - 4 messages - 4 authors

Guns in Medical Literature

... to overturn the arbitrary **selection** of weapons ... need to reload The shooter's  
**probability**

of hitting a ... may exercise control over their children's viewing habits. ...  
talk.politics.guns - Jan 3 1994, 10:17 am by Greg Booth - 1 message - 1 author

CyberSol

... members of the population, then the **probability** that the ... changes in lifestyle (sleep,  
eating **habits**, family, work ... to allow the easy editing and **viewing** of Life ...  
comp.ai.alife - Dec 1 1997, 4:05 pm by ZEN/OS Operator - 1 message - 1 author

A bit of conspiracy theory

... he will, with a certain **probability**, respond or ... THE PERSONAL PAPER  
TRAIL Personal  
buying **habits**, ie, Personal ... (19) controls material available for TV **viewing**. ...  
soc.men - Jun 8 2004, 9:07 pm by Sir Jessy of Anti - 8 messages - 5 authors

EVOLUTION, ALTRUISM..... J. PHILIPPE RUSHTON (University of...

... pool causally affects the **probability** of any ... derives from cultural proscriptions on dietary **habits**. ... Familial influences on television **viewing** and aggression:  
A ...  
alt.activism - Feb 7 1998, 9:29 pm by Michael - 1 message - 1 author

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